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Serial No. 90

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

E. LESTER JONES, SUPERINTENDENT

RESULTS OF OBSERVATIONS MADE AT THE UNITED
STATES COAST AND GEODETIC SURVEY MAGNETIC
OBSERVATORY AT VIEQUES, P. R.
1915 AND 1916

BY

DANIEL L. HAZARD

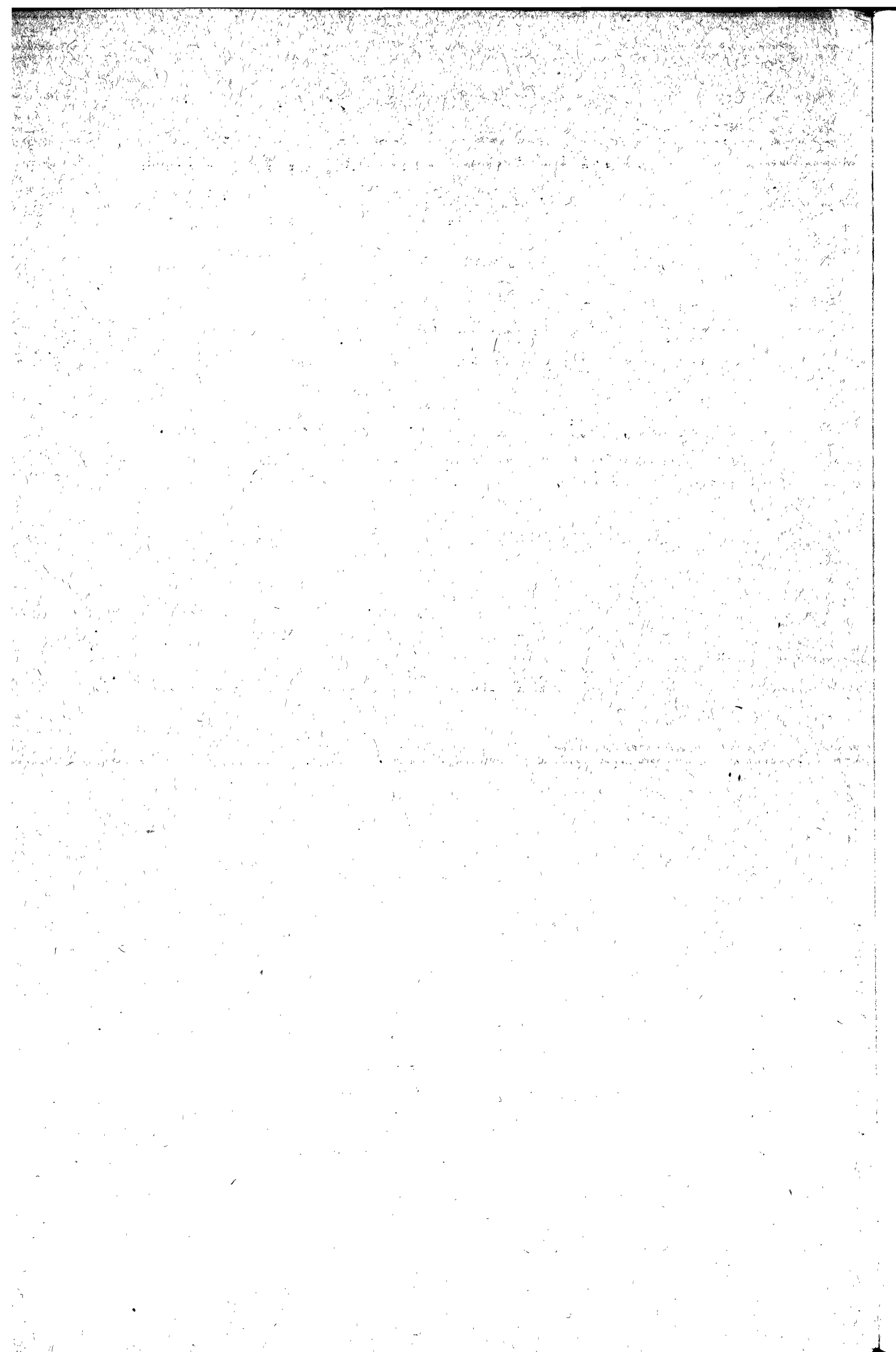
Chief, Division of Terrestrial Magnetism



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RESULTS OF OBSERVATIONS MADE AT THE UNITED STATES COAST AND GEODETIC SURVEY MAGNETIC OBSERVATORY AT VIEQUES, P. R., IN 1915 AND 1916.

INTRODUCTION.

Latitude, $18^{\circ} 08'.8$ N.; longitude, $65^{\circ} 26'.9$ W.; elevation, 20 meters (65 feet).

In February, 1903, a magnetograph was installed in a room in Fort Isabel Segunda, on Vieques Island, P. R., and variation observations were continued there until April, 1907. At that time, suitable buildings having been constructed for the observatory work, the magnetograph was transferred to the new site about five-eighths of a mile (1 kilometer) west of the old fort. A general description of the new buildings will be found in the "Results for 1907 and 1908."

The division of terrestrial magnetism of the Coast and Geodetic Survey includes both the field and office work. Andrew Braid was chief of this division from September, 1914, to February, 1916, at which time he was succeeded by the writer. The work of the Porto Rico Observatory was carried on by H. W. Pease, magnetic observer, from April, 1914, to September, 1916, and by F. L. Adams, magnetic observer, after that date. The office computations and preparation of the results for publication were in charge of the writer, assisted by J. M. Seybolt, O. S. Hill, and W. N. McFarland, computers, and W. M. Hill, H. E. McComb, and W. W. Merrymon, magnetic observers.

Up to the end of 1914 each hourly value of D , H , or Z in the monthly tabulations represented the momentary value of the quantity for the specified hour, local mean time, following the method in use before the introduction of continuous photographic registration, when eye readings were made once an hour. By this method, however, only a very small portion of the available data was utilized, undue weight was given to a disturbance which happened to fall exactly at the hour, and the results at one station could not be compared in detail with those at other stations, because the use of local mean time rendered the published values nonsimultaneous.

Beginning with 1915 a published hourly value represents the average value for the hour ending at the specified standard meridian time (sixtieth meridian in case of Porto Rico). Thus a value in the column headed 2^h represents the average value for the hour beginning at 1^h and ending at 2^h , sixtieth meridian mean time. In this way many of the defects of the old method are eliminated.

By the use of a special reading scale it is possible to read the ordinates according to this new method without much increase of time or labor. This scale is similar to the one described by Dr. Schmidt in "Ergebnisse der magnetischen Beobachtungen in Potsdam im Jahre, 1905." It consists of a piece of plate glass about 10 centimeters wide and 18 centimeters long, on which are ruled two sets of lines at right angles to each other. The lines parallel to the long sides (vertical lines) are 20 millimeters apart, corresponding to the distance between hour breaks on the Eschenhagen magnetogram, and those parallel to the short sides (horizontal lines) are 10 millimeters apart. The second space from the bottom is subdivided into millimeters by short lines midway between the vertical lines. A reading is made by laying the scale on the magnetogram with the ruled surface next to the paper, the horizontal lines parallel to the base line, the vertical lines crossing the base line at the hour marks and the space subdivided to millimeters including the base line. The scale is then moved up or down until one of the horizontal lines is set for the average ordinate of a portion of the curve included between two adjacent vertical lines. With a little practice this can be done rapidly and with surprising accuracy (except in cases of great disturbance) by making equal the areas above and below the horizontal line inclosed by that line, the curve, and the two vertical lines. The number of centimeters of the ordinate is read at the end of this horizontal line and the fraction of a centimeter is read to tenths of a millimeter in the space subdivided to millimeters in which the base line is included.

The scale is made wide enough to cover the space of four hours, so that four ordinates can be read with only such lateral shifting of the scale as may be required to allow for slight irregularities in the distance between hour marks. One vertical space is divided in the middle to permit separate readings of the two halves of a disturbed hour.

INSTRUMENTS.

VARIATION INSTRUMENTS.

The magnetograph is of the Eschenhagen pattern and consists of D , H , and Z variometers mounted east of the recording apparatus. Increasing ordinates (upward motion of the curves) correspond to increasing west declination, increasing H and increasing Z .

Variations in temperature were obtained from the record of the photographically recording thermograph inclosed in the Z variometer. The seasonal variation was small but there was a fairly regular diurnal variation of a few tenths of a degree centigrade, the maximum occurring shortly before midnight and the minimum shortly before noon. The range was reduced somewhat by the introduction of additional insulation (4 inches of sawdust) in the summer of 1916.

Monthly and annual range of temperature (centigrade).

Month	1915				1916			
	Maximum	Minimum	Mean	Range	Maximum	Minimum	Mean	Range
	°	°	°	°	°	°	°	°
January.....	26.5	24.9	25.8	1.6	26.8	24.4	25.5	2.4
February.....	27.0	24.5	25.5	2.5	27.2	23.9	25.5	3.3
March.....	28.3	24.4	26.3	3.9	26.8	24.0	25.5	2.8
April.....	28.4	25.2	26.7	3.2	28.8	24.6	26.7	4.2
May.....	28.9	26.6	27.8	2.3	29.4	27.0	28.4	2.4
June.....	29.6	27.0	28.5	2.6	29.6	27.6	28.6	2.0
July.....	30.0	28.0	28.9	2.0	29.7	27.6	28.6	2.1
August.....	30.3	28.4	29.4	1.9	29.1	27.4	28.6	1.7
September.....	30.4	28.3	29.2	2.1	28.8	27.0	28.0	1.8
October.....	29.7	27.6	28.9	2.1	28.0	26.2	27.4	1.8
November.....	29.6	26.5	28.0	3.1	28.0	25.4	26.3	2.6
December.....	27.7	26.1	26.9	1.6	26.3	24.3	25.2	2.0
Year.....	30.4	24.4	27.7	6.0	29.7	23.9	27.0	5.8

ABSOLUTE INSTRUMENTS.

India Magnetic Survey pattern magnetometer No. 31, Schulze earth inductor No. 1, and dip circle No. 5676 were used.

SEISMOGRAPH.

A Bosch-Omori seismograph was kept in continuous operation. The recorded seismic disturbances will be found tabulated on pages 98 and 99.

TIME.

Time observations were made about once a week with a sextant, using the method of equal altitudes of the sun.

CONSTANTS OF THE MAGNETOGRAPH.

DECLINATION.

Scale value.—One millimeter on the magnetogram = 1'.02.

HORIZONTAL INTENSITY.

Scale value.—Deflection observations at two distances were made once a month. The resulting scale values show a variation with ordinate represented by the formulas:

$$\epsilon_h = 4.74\gamma + 0.005h \dots \dots \text{February to April, 1915.}$$

$$\epsilon_h = 2.58\gamma + .005h \dots \dots \text{June, 1915, to August, 1916.}$$

$$\epsilon_h = 2.64\gamma + .005h \dots \dots \text{September to December, 1916.}$$

During the first part of 1915 the *H* variometer gave much trouble, and in February and May in particular frequent adjustments were necessary, causing changes of scale value.

H scale value.

Date	<i>h</i>	Observed	Computed	Date	<i>h</i>	Observed	Computed
1915	<i>mm</i>	γ	γ	1916	<i>mm</i>	γ	γ
Feb. 27	3.4	4.76	4.76	Jan. 26	32.7	2.74	2.74
Mar. 20	34.0	4.90	4.91	Feb. 25	37.6	2.77	2.77
30	36.6	4.91	4.92	Mar. 30	14.0	2.65	2.65
Apr. 30	48.9	5.01	4.98	Apr. 28	2.2	2.59	2.59
May 26	20.0	1.23	.....	May 31	10.6	2.63	2.63
June 2	1.4	2.63	2.59	June 30	19.0	2.67	2.68
29	33.4	2.75	2.75	July 28	20.6	2.68	2.68
July 28	46.6	2.81	2.81	Aug. 29	2.4	2.58	2.59
Aug. 31	46.5	2.81	2.81	Sept. 30	8.9	2.67	2.68
Sept. 28	16.5	2.65	2.66	Nov. 3	6.8	2.68	2.67
Oct. 26	18.0	2.64	2.67	29	11.4	2.71	2.70
Nov. 29	35.0	2.74	2.75	Dec. 30	4.6	2.56	2.66
Dec. 25	31.3	2.72	2.74				

Temperature coefficient.—The same value was used as in previous years, namely:

$$q=0.00026 \text{ or } 7.5\gamma \text{ for } 1^{\circ} \text{ C.}$$

VERTICAL INTENSITY.

Scale value.—Deflection observations at two distances were made at least once a month. A factor of the form $\left(1 + \frac{P}{r^2}\right)$ was introduced in the computation formula to take account of the dissimilarity of the *D* and *Z* magnets. The value *P*=44.4, determined in previous years, was adopted for 1915 and 1916.

Much difficulty was experienced in the operation of the *Z* variometer, the tendency of the scale value to increase being a particularly troublesome feature. Changes of adjustment, causing change of scale value, were made on April 10, 16, May 13, June 28, August 4, 16, 28, October 5, November 10, 1915; February 3, March 4, April 17, May 6, July 3, 27, August 12, September 21, November 29, December 30, 1916.

Z scale value.

Date	Short distance	Long distance	Adopted	Date	Short distance	Long distance	Adopted
1915	γ	γ	γ	1916	γ	γ	γ
Feb. 6	12.45	12.58	12.50	Jan. 27	7.24	7.24	7.24
27	12.71	12.76	12.70	Feb. 23	4.20	4.27	4.24
Mar. 31	13.02	12.92	12.90	Mar. 31	4.62	4.72	4.64
Apr. 9	13.01	13.00	13.00	Apr. 17	4.58	4.64	4.64
14	13.52	13.36	13.40	28	4.17	4.14	4.16
19	9.97	9.80	9.90	May 29	4.50	4.49	4.49
June 3	12.24	12.41	12.30	June 27	4.50	4.48	4.49
30	13.09	12.97	13.00	July 25	4.71	4.67	4.69
July 24	12.98	12.97	13.00	31	4.59	4.59	4.59
Aug. 7	32.91	33.52	.....	Aug. 30	4.90	4.91	4.91
11	9.98	10.13	10.00	Sept. 30	4.06	4.10	4.08
21	5.53	5.59	5.56	Nov. 3	4.32	4.27	4.29
31	5.77	5.86	5.83	18	4.38	4.38	4.39
Sept. 22	5.95	5.98	5.94	29	4.14	4.14	4.14
Oct. 21	5.57	5.62	5.60				
Nov. 20	5.90	5.91	5.91				
Dec. 31	6.56	6.56	6.57				

Temperature coefficient.—A redetermination of the *Z* temperature coefficient was made from a comparison of the daily mean ordinates for short periods during which there was both a

rise and a fall of temperature. The results show considerable variation, as was to be expected in view of the small changes of temperature, but the mean of 25 values in 1915 and 1916 is very nearly zero, and that value has been adopted, except for the period from April 10 to July 13, 1915. The mean of four determinations during that period gave the value $q = -0.00040$ or 14γ for 1°C. , and that value has been adopted for those three months.

ABSOLUTE OBSERVATIONS AND BASE-LINE VALUES.

DECLINATION.

Absolute observations of D were made twice a week. The scale value deflections indicate that the D magnet was not entirely free during the last three months of 1915. Apparently the suspension fiber was held in some way, as the curves show the diurnal variation and disturbances, reduced in amount. The base-line computations show a smaller range by the variometer than by the magnetometer in the course of a day's observations.

It has been assumed that the amplitude of the motion of the magnet was reduced in the same proportion at other times as when the magnet was deflected during scale value determinations, and the scaled ordinates have been increased accordingly. The average value of $2u$ for the part of 1915 when the D magnet was free and the values during the period when its motion was obstructed are:

	H scale value		Z scale value		Sum	Ratio
	Short	Long	Short	Long		
1915.	<i>mm</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>		
Average.....	34. 60	22. 06	17. 35	11. 10	85. 11	1. 00
October 26.....	27. 00	17. 40	15. 30	9. 70	69. 40	1. 23
November 29.....	29. 00	18. 80	15. 30	9. 75	72. 85	1. 17
December 25.....	22. 70	14. 55	11. 00	6. 95	55. 20	1. 54

Scale values have been used increasing from 1'.0 at the beginning of October to 1'.2 at the end, constant at 1'.2 for November, and increasing from 1'.2 to 1'.5 during December. On January 5, 1916, the D variometer was cleaned and the trouble was eliminated.

From September 13 to November 10, 1916, the D magnet was again apparently not quite free, though it showed the general features of the diurnal variation, somewhat reduced in amplitude. The portion of the record from October 17 to November 10 has been rejected and the portion from September 13 to October 16 should be used with reserve, as there is some question of its accuracy.

Abrupt changes of D base-line value.

Date	Hour	Amount	Cause	Date	Hour	Amount	Cause
1915		/		1915		/	
Feb. 9	16-17	+9. 2	Adjusted.	Aug. 4	10-11	+1. 5	Z removed.
18	16-17	+4. 8	H removed.	4	16-17	-1. 5	Z replaced.
18	19-20	-4. 8	H replaced.	21	12-13	+2. 8	Torsion observations.
19	16-17	+4. 8	H removed.	Nov. 9	12-13	.....	Torsion observations.
20	9-10	-5. 1	H replaced.	17	16-17	.....	D adjusted.
27	10-11	+1. 4	D fixed mirror moved.				
May 5	16-17	+4. 8	H removed.	1916			
6	7- 8	-5. 1	H replaced	Jan. 5	15-16	+9. 0	D cleaned.
11	16-17	+5. 0	H removed.	7	16-17	-0. 5	D adjusted.
14	17-18	+2. 2	H replaced.	26	15-16	+0. 4	D torsion.
14	18-19	-1. 5	H removed.	July 13	9-10	-3. 0	D cleaned.
15	10-11	+0. 9	H replaced.	Nov. 23	12-13	+1. 2	D examined.
31	13-14	-6. 5	D adjusted.	23	15-16	-8. 0	D adjusted.
				29	11-12	-7. 2	D torsion.

At other times there was more or less drift, as indicated by the values tabulated below.

Declination base-line values.

Date	Observed	Adopted	Date	Observed	Adopted	Date	Observed	Adopted
1915	° /	° /	1915	° /	° /	1916	° /	° /
Jan. 2	2 51.6 W.	2 51.7 W.	Aug. 13	2 62.0 W.	2 62.0 W.	Apr. 15	2 73.2 W.	2 73.0 W.
5	51.8	51.7	19	61.9	62.0	17	72.8	72.9
9	52.1	51.7	21	64.8	64.8	21	72.6	72.8
12	52.3	51.7	25	64.6	64.8	27	72.7	72.7
16	51.9	51.7	28	64.6	64.8	29	72.7	72.7
18	51.5	51.7	30	64.7	64.8	May 4	72.7	72.6
23	51.6	51.7	Sept. 4	64.9	64.8	5	72.4	72.6
27	51.8	51.7	9	65.2	64.8	12	72.5	72.5
Feb. 3	51.6	51.7	10	65.0	64.8	19	72.5	72.5
6	51.8	51.7	16	65.0	64.8	26	72.7	72.6
9	51.6	51.7	18	64.8	64.8	27	72.6	72.6
13	61.2	61.1	22	64.6	64.8	30	72.5	72.6
16	61.1	61.1	25	64.7	64.8	June 8	72.5	72.6
20	60.7	60.8	28	64.4	64.8	12	72.9	72.6
23	60.9	60.8	29	64.8	64.8	13	72.6	72.6
24	60.9	60.8	Oct. 8	64.2	64.2	20	72.7	72.6
Mar. 2	62.4	62.2	14	64.5	64.2	21	72.6	72.6
9	62.4	62.2	21	63.9	64.2	28	72.9	72.9
13	62.1	62.2	26	64.1	64.2	30	73.1	73.1
17	62.4	62.2	28	64.5	64.2	July 5	73.9	73.9
18	62.3	62.2	Nov. 4	64.0	64.2	6	74.5	74.0
26	62.2	62.2	10	62.9	62.7	12	74.5	74.6
27	62.2	62.2	11	63.0	62.7	13	71.6	71.6
29	62.2	62.2	17	62.3	62.7	19	71.2	71.5
Apr. 3	62.0	62.2	20	64.2	64.3	25	71.6	71.4
7	62.1	62.2	22	64.2	64.3	27	71.3	71.3
10	62.4	62.2	29	65.0	64.3	Aug. 2	71.3	71.4
14	62.3	62.2	30	64.5	64.3	3	71.4	71.4
15	62.4	62.2	Dec. 6	63.6	64.3	9	71.5	71.5
21	62.2	62.2	11	64.6	64.3	12	71.8	71.6
29	62.3	62.2	16	64.4	64.2	16	71.6	71.6
30	62.3	62.2	23	63.8	63.9	25	71.7	71.7
May 7	62.0	61.9	29	63.1	63.6	26	71.4	71.7
8	61.7	61.9	1916			30	71.8	71.7
12	67.0	66.9	Jan. 5	64.3	64.0	31	71.7	71.7
15	68.5	68.5	7	72.7	72.9	Sept. 6	71.7	71.8
22	68.5	68.5	12	72.6	72.5	7	71.9	71.8
28	68.8	68.5	22	72.5	72.5	11	72.0	72.0
29	68.3	68.5	26	72.5	72.5	12	72.4	72.1
31	68.6	68.5	29	73.0	72.9	18	68.2	68.4
June 3	61.9	62.0	31	73.0	72.9	27	68.7	68.3
5	62.0	62.0	Feb. 4	73.0	72.9	Oct. 3	68.1	67.9
10	62.1	62.0	9	72.8	72.9	7	67.2	67.8
11	61.8	62.0	11	73.1	72.9	10	74.0	73.8
17	62.5	62.0	16	72.9	72.9	Nov. 11	71.5	72.8
18	62.2	62.0	18	73.2	72.9	14	72.4	72.8
23	62.0	62.0	23	72.8	72.9	18	72.8	72.8
26	61.9	62.0	25	72.7	72.9	22	72.5	72.8
30	62.1	62.0	28	72.6	72.9	25	64.9	66.0
July 3	62.1	62.0	Mar. 4	72.9	72.9	28	66.0	66.0
7	62.0	62.0	8	72.7	72.9	Dec. 4	58.3	58.8
8	62.0	62.0	11	73.2	72.9	5	58.8	58.8
14	62.0	62.0	13	72.9	72.9	7	59.1	58.8
17	62.1	62.0	20	72.9	72.9	12	59.4	58.8
19	62.0	62.0	24	73.0	72.9	14	58.4	58.8
23	62.1	62.0	27	72.9	72.9	19	58.6	58.7
27	62.2	62.0	31	73.1	72.9	21	58.5	58.7
28	62.3	62.0	Apr. 6	73.0	73.1	26	58.8	58.7
Aug. 6	61.7	62.0	8	73.2	73.1	27	59.2	58.7
12	61.9	62.0	10	73.1	73.1	30	59.0	58.7

HORIZONTAL INTENSITY.

Absolute observations were made once a week, a day's observations consisting of two sets of deflections at two distances between two sets of oscillations.

Beginning with 1913 the results of horizontal intensity observations made by this Bureau have been reduced to the international standard of the Department of Terrestrial Magnetism

of the Carnegie Institution of Washington. Intensity results for years previous to 1913 must be diminished by 1 part in 1,000 to reduce them to that standard. In the table of annual means on page 25 this correction has been applied. Horizontal intensity results with magnetometer No. 31 during 1915 and 1916 have been diminished by 20 γ to reduce them to that standard.

Much difficulty was experienced in adjusting the *H* variometer in February and May, 1915, and the portions of the record from February 14 to 21 and from May 6 to 17 had to be rejected.

Abrupt changes of H base-line value.

Date	Hour	Amount	Cause
1915		γ	
Feb. 1	16-17	+ 55	Adjusted
May 24	8- 9	+120	Do.
26	16-17	+ 9	Do.
29	14-15	+ 7	Do.
29	16-17	+ 40	Do.
June 15	16-17	- 47	Do.
Sept. 1	16-17	+ 74	Do.
1916			
Sept. 1	16-17	+ 8	Do.
Nov. 3	11-12	+ 15	Deflections.
Dec. 30	16-17	- 9	Adjusted.

H base-line values at 20° C.

Date	Observed	Adopted	Date	Observed	Adopted	Date	Observed	Adopted
1915	γ	γ	1915	γ	γ	1916	γ	γ
Jan. 5	28200	28199	Sept. 9	28118	28114	May 12	28066	28058
12	185	190	16	106	107	19	060	056
18	185	184	22	094	101	27	050	054
27	182	175	28	103	095	30	047	053
Feb. 3	210	230	Oct. 6	077	087	June 2	046	052
9	225	212	8	089	086	8	046	050
16	183	...	13	083	084	13	046	049
18	321	...	21	085	080	21	041	047
24	300	305	26	080	078	28	047	045
Mar. 2	226	231	Nov. 4	074	075	July 6	045	043
9	164	164	11	085	073	12	046	042
18	122	125	17	083	072	19	037	040
27	101	098	22	073	071	25	039	038
29	091	091	29	078	069	28	039	038
Apr. 7	062	062	Dec. 6	060	068	Aug. 3	036	036
15	045	048	16	054	066	9	034	035
21	047	044	23	066	065	16	027	033
28	040	041	29	064	064	25	033	031
May 18	200	202	1916			30	034	029
22	129	132	Jan. 7	059	065	Sept. 6	039	036
26	233	233	12	058	065	11	039	034
29	221	222	22	066	065	11	036	034
31	246	245	26	069	065	18	047	033
June 3	236	235	31	070	065	27	024	030
11	215	214	Feb. 9	069	066	Oct. 3	026	028
18	149	150	16	064	066	10	026	025
26	124	130	23	066	066	17	021	021
30	111	120	28	071	066	24	010	018
July 8	113	104	Mar. 8	061	067	31	009	014
14	096	095	13	071	067	Nov. 7	016	027
23	079	082	20	083	067	14	020	026
28	082	077	27	065	067	22	039	024
Aug. 6	066	068	Apr. 6	069	066	28	033	023
12	062	062	10	062	065	Dec. 5	031	022
19	056	056	21	055	062	12	014	020
25	044	052	27	067	061	19	012	019
30	055	049	May 5	074	059	26	021	017

VERTICAL INTENSITY.

Absolute observations of dip were usually made three times a week, two sets on one day and one set on another. The results have been reduced to the standard earth inductor at Cheltenham.

In August, 1916, the absolute instruments were moved hurriedly from the absolute building to the seismograph house to insure their safety in an approaching hurricane. When they were remounted on the observing posts the earth inductor failed to work properly. It was therefore sent to the office at Washington for repairs and dip circle No. 5676 was used from October, 1916, to May, 1917. After the earth inductor had been overhauled it was sent to Cheltenham for standardization and then returned to Porto Rico, where observations with it were resumed on March 31, 1917. The corrections to be applied to observations with dip circle No. 5676 were derived from comparison with the earth inductor in April and May, 1917.

Much trouble was experienced in keeping the Z variometer in good working order and numerous abrupt changes of base-line value, due to changes of adjustment or other causes, made it very difficult to determine just what base-line values to adopt. In general the practice has been to make the mean of the adopted base-line values for a month agree with the mean of the observed values and to determine the drift of base-line value from the progressive change shown by the daily means of the hourly ordinates.

Abrupt changes of Z base-line value.

Date	Hour	Amount	Cause	Date	Hour	Amount	Cause
1915		γ		1916		γ	
Jan. 17	16-17	+ 27	Unknown.	Feb. 25	13-14	- 65	Disturbed.
Feb. 6	8- 9	+ 11	Deflections.	25	16-17	+ 80	Adjusted.
Mar. 31	10-11	+ 24	Do.	Mar. 4	16-17	- 54	Do.
Apr. 9	10-11	- 10	Do.	Apr. 1	16-17	-115	Do.
10	16-17	+150	Adjusted.	17	16-17	-107	Do.
16	16-17	- 25	Do.	28	10-11	- 14	Deflections.
29	16-17	- 10	T adjusted.	May 6	16-17	- 35	Adjusted.
May 31	13-14	- 10	H adjusted.	July 3	16-17	+ 40	Do.
June 28	21-22	+122	Adjusted.	26	15-17	+ 57	Disturbed.
July 13	16-17	+ 8	Do.	27	16-17	-133	Adjusted.
Aug. 5-8	-----	-----	Variometer overhauled.	Aug. 5	2- 3	+ 34	Unknown.
16	16-17	-190	Adjusted.	11	4- 5	-377	Earthquake.
28	16-17	+ 95	Do.	12	16-17	+321	Adjusted.
Sept. 6	16-17	+ 79	Do.	Sept. 21	8- 9	- 13	Disturbed.
Oct. 5	16-17	+ 46	Do.	Nov. 18	15-16	+122	Deflections.
Nov. 10	16-17	+ 70	Do.	18	18-20	+ 28	Disturbed.
1916				29	11-13	-140	Deflections.
Feb. 3	16-17	- 63	Do.	Dec. 4	15-16	+ 10	Adjusted.
4	16-17	+180	Do.	7	16-17	+ 10	T adjusted.
				9	17-18	+ 19	Unknown.
				30	14-17	-145	Adjusted.

Z base-line values at 20° C.

Date	Observed	Adopted	Date	Observed	Adopted	Date	Observed	Adopted
1915	γ	γ	1915	γ	γ	1915	γ	γ
Jan. 2	34445	34439	Feb. 13	34484	34492	Apr. 3	34551	34538
5	434	440	23	536	508	7	531	536
9	447	442	24	534	509	10	519	523
12	443	443	Mar. 2	524	514	14	701	703
16	437	444	9	505	514	15	702	703
18	470	472	13	532	514	21	708	686
23	485	474	17	498	514	29	691	689
27	482	475	18	536	514	30	713	687
Feb. 3	478	477	26	492	514	May 22	549	556
6	484	478	27	493	514	28	534	547
9	469	490	29	502	514	29	544	546

Diurnal variation of *H*.

1915.

Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Group Means			Year
	I	I	II	II	III	III	III	III	II	II	I	I	I	II	III	
1	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
2	-4	-4	-8	-4	0	-3	-4	-4	-2	-5	-5	-5	-4	-5	-3	-4
3	-3	-4	-6	-4	+2	-3	-3	-5	-2	-4	-5	-3	-4	-4	-2	-3
4	-2	-5	-7	-2	+2	-3	-3	-4	-1	-4	-4	-3	-3	-3	-2	-3
5	0	-5	-6	-1	+2	-1	-2	-4	-1	-2	-2	-1	-2	-2	-1	-2
6	0	-3	-5	-2	0	-2	-3	-5	-2	-2	-2	0	-1	-3	-2	-2
7	+1	-2	-4	-3	+1	-1	-2	-6	-2	-1	0	+2	0	-2	-2	-1
8	+1	0	-4	-3	+1	0	-2	-6	-2	+2	+4	+4	+2	-2	-2	0
9	+4	+4	+1	-2	0	-2	-2	-6	-6	+6	+10	+8	+6	0	-2	+2
10	+3	+7	+6	0	-1	-2	-2	-4	-4	+6	+11	+7	+7	+2	-2	+2
11	+1	+10	+11	+6	+1	+1	+3	+4	+3	+8	+10	+6	+7	+7	+2	+5
12	+2	+13	+17	+13	+4	+5	+8	+12	+9	+11	+9	+5	+7	+13	+7	+9
13	+4	+14	+21	+16	+8	+8	+11	+17	+11	+13	+7	+4	+7	+15	+11	+11
14	+4	+10	+19	+12	+8	+8	+10	+16	+12	+11	+4	+1	+5	+13	+10	+10
15	+2	+5	+14	+5	+6	+4	+7	+11	+6	+6	-2	+3	0	+8	+7	+5
16	+2	-1	+7	+4	+3	+2	+6	+8	+1	+1	-6	-3	-2	+3	+5	+2
17	0	-4	+2	0	-2	-1	+3	+2	-3	-5	-8	-1	-3	-7	-5	-5
18	-3	-6	-6	-7	-9	-4	-2	-3	-7	-8	-8	-2	-5	-7	-6	-6
19	-2	-7	-8	-7	-11	-4	-3	-5	-5	-7	-5	-2	-4	-7	-6	-6
20	-1	-6	-8	-6	-9	-1	-4	-6	-2	-7	-3	-2	-3	-6	-5	-5
21	-2	-5	-7	-5	-5	0	-3	-3	0	-6	-1	-2	-2	-5	-3	-3
22	-2	-4	-8	-4	-3	0	-3	-3	0	-6	-1	-2	-2	-4	-2	-3
23	-2	-3	-7	-2	0	0	-4	-3	-1	-4	-1	-2	-2	-3	-2	-3
24	-2	-3	-9	-2	0	0	-4	-2	-2	-3	-1	-3	-2	-4	-1	-3
25	-1	-2	-7	-2	0	0	-3	-3	-2	-2	-2	-4	-2	-3	-1	-2

1916.

1	-1	-4	-9	-6	-5	-6	-2	-2	+2	-1	-8	-5	-4	-4	-4	-4
2	0	-4	-8	-5	-3	-4	-3	-2	+1	0	-4	-5	-3	-3	-3	-3
3	+1	-4	-6	-4	-4	-5	-2	-2	+3	0	-3	-4	-2	-3	-2	-2
4	+2	-4	-5	-4	-3	-4	-2	-2	+4	+2	0	-2	-1	-1	-3	-2
5	+2	-2	-3	-3	-2	-5	-3	-3	+4	+2	+2	0	0	0	-3	-1
6	+2	0	-2	-2	-3	-5	-5	-3	+3	+3	+3	0	+1	0	-4	-1
7	+4	0	0	-1	-2	-4	-1	-4	+2	+3	+7	+1	+3	+1	-3	0
8	+6	+4	+4	-1	-3	-5	-1	-6	+3	+2	+11	+5	+6	+1	-4	+1
9	+6	+6	+6	0	0	-3	-1	-6	-9	-1	+12	+6	+8	0	-2	+1
10	+2	+4	+6	+3	+4	+5	+3	-1	-10	-1	+9	+6	+5	-1	+3	+2
11	0	+1	+9	+8	+8	+12	+9	+6	-6	+1	+9	+5	+3	+3	+9	+5
12	-1	+2	+13	+10	+10	+16	+13	+10	0	+3	+5	+5	+3	+6	+12	+7
13	-5	+4	+14	+9	+9	+15	+12	+10	+3	+1	+1	+4	+1	+7	+12	+6
14	-5	+5	+13	+12	+9	+12	+10	+10	+4	-2	-1	+4	+1	+7	+10	+6
15	-5	+6	+8	+9	+7	+9	+6	+7	+2	-3	-7	+3	0	+4	+7	+4
16	-6	+5	+1	+5	+4	+5	-2	+2	-2	-4	-7	+1	-2	0	+2	0
17	-5	0	-4	-3	-1	-1	-8	-3	-6	-2	-5	-2	-3	-4	-3	-3
18	-3	-3	-7	-4	-5	-4	-9	-5	-6	-1	-2	-4	-3	-4	-6	-4
19	-1	-2	-7	-5	-5	-5	-6	-5	-2	0	-2	-4	-2	-4	-5	-4
20	+1	-2	-6	-4	-4	-6	-4	-3	+2	-1	-2	-3	-2	-2	-4	-3
21	+1	-2	-6	-3	-2	-5	-2	-2	+2	-1	-3	-3	-2	-2	-3	-2
22	0	-3	-5	-4	-1	-4	-1	0	+3	0	-4	-4	-3	-2	-2	-2
23	+1	-3	-4	-4	-2	-3	-2	+2	+4	-1	-5	-4	-3	-1	-1	-2
24	+2	-2	-3	-4	-4	-3	0	0	+5	+1	-4	-2	-2	0	-2	-1

Diurnal variation of Z.

1915.

Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Group Means			Year
	I	I	II	II	III	III	III	III	II	II	I	I	I	II	III	
1	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
2	+3	+4	+3	0	-2	-1	-1	+1	+1	+2	+3	+4	+3	+2	-1	+2
3	+4	+3	+2	0	-2	-2	-1	+1	+2	+3	+4	+5	+4	+1	-1	+1
4	+5	+4	+4	+1	-1	-3	+1	+2	+3	+4	+4	+5	+4	+3	0	+2
5	+4	+6	+6	+3	0	-1	+1	+2	+4	+5	+3	+7	+5	+5	0	+3
6	+4	+5	+6	+2	-1	-2	0	+2	+4	+6	+4	+6	+5	+5	0	+3
7	+5	+6	+6	+1	0	-2	0	+3	+3	+6	+5	+5	+5	+4	0	+3
8	+6	+7	+6	-3	0	-2	-3	0	-3	+4	+3	+5	+5	+1	-1	+2
9	-1	+2	0	-5	-2	-4	-9	-5	-7	-2	-1	-1	0	-3	-5	-3
10	-7	-2	-4	-5	-2	-1	-7	-5	-6	-5	-3	-5	-4	-5	-4	-4
11	-11	-5	-7	-4	-2	0	-3	-4	-4	-7	-5	-8	-7	-5	-2	-5
12	-9	-5	-7	-3	0	+4	+2	-3	-3	-6	-5	-9	-7	-5	+1	-4
13	-7	-8	-9	-3	-1	+4	+2	-4	-1	-6	-6	-10	-8	-5	0	-4
14	-7	-10	-9	-2	+1	+3	+2	-4	-1	-7	-6	-9	-8	-5	+1	-4
15	-5	-9	-6	+1	+4	+5	+3	-1	-1	-6	-4	-5	-6	-3	+3	-2
16	-1	-7	-6	+3	+5	+6	+6	+1	0	-4	-3	-2	-3	-2	+5	0
17	-3	-4	-4	+2	+2	+3	+3	+1	-2	-3	-2	-1	-3	-2	+2	-1
18	0	-2	-1	+2	+1	+1	+2	+1	+1	0	0	+1	0	0	+1	+1
19	+2	0	+2	+3	+1	-1	+1	+2	+3	0	0	+1	+1	+2	+1	+2
20	+4	+3	+5	+3	+1	-1	+2	+3	+2	+2	+1	+2	+2	+3	+1	+1
21	+3	+3	+3	+1	0	-2	0	+2	+1	+2	0	+1	+2	+2	0	+1
22	+3	+2	+2	0	-1	-1	0	+1	0	+2	0	0	+1	+1	0	+1
23	+3	+2	+1	0	-1	-2	0	+1	-1	+3	+2	+1	+2	+1	0	+1
24	+4	+3	+2	-1	-1	-1	+1	0	+1	+4	+2	+2	+3	+1	0	+1

1916.

1	+3	+2	+3	+3	-1	-2	0	0	+3	+4	+4	+2	+3	+3	-1	+2
2	+4	+2	+5	+3	0	-2	-1	-1	+2	+4	+6	+4	+4	+4	-1	+2
3	+5	+3	+6	+2	0	-2	0	0	+3	+4	+6	+5	+5	+4	0	+3
4	+6	+5	+6	+2	+2	-1	0	+1	+3	+5	+6	+7	+6	+4	0	+3
5	+5	+4	+6	+2	0	0	-1	+2	+3	+4	+6	+7	+6	+4	+1	+3
6	+5	+5	+6	+3	+2	+2	+1	+2	+3	+4	+4	+7	+5	+4	+2	+4
7	+4	+5	+6	+3	+2	+2	+1	+2	+3	+4	+4	+6	+5	+4	+2	+4
8	+4	+6	+5	+1	-2	-1	-3	-2	-3	+2	+3	+4	+4	+1	-2	+1
9	-1	+2	-1	-3	-6	-3	-6	-5	-8	-4	-2	-1	0	-4	-5	-3
10	-8	-2	-5	-4	-5	-1	-4	-4	-8	-6	-5	-8	-6	-6	-4	-5
11	-11	-5	-7	-5	-1	0	-1	-2	-6	-6	-8	-11	-9	-6	-1	-5
12	-10	-7	-9	-4	0	+1	+2	-2	-4	-6	-8	-10	-9	-6	0	-5
13	-8	-8	-8	-4	+3	0	+3	-3	-4	-6	-8	-8	-8	-6	+1	-4
14	-7	-8	-7	-2	+6	0	+4	-3	-3	-7	-6	-7	-7	-5	+2	-3
15	-6	-7	-6	-1	+6	+2	+4	-1	-1	-7	-4	-6	-6	-4	+3	-2
16	-3	-3	-3	0	+6	+4	+4	+1	0	-4	-1	-3	-2	-2	+4	0
17	-2	-3	-2	-3	+2	+1	+2	+1	-1	-2	0	0	-1	-2	+2	-1
18	+1	-1	-2	-2	0	+1	0	0	+1	-1	0	+1	0	-1	0	0
19	+3	+1	0	0	-1	+1	-1	+1	+3	0	0	+2	+2	+1	0	+1
20	+4	+3	+1	+2	-2	+1	-1	+2	+4	+2	0	+3	+2	+2	0	+2
21	+3	+2	+1	+2	-2	0	0	+3	+3	-1	+2	+2	+2	+2	0	+1
22	+2	+1	+1	+1	-3	0	-1	+3	+3	+4	0	+2	+1	+2	0	+1
23	+2	+1	+2	+1	-3	-1	-2	+2	+2	+4	0	+1	+1	+2	-1	+1
24	+4	+2	+2	+1	-4	-1	-2	+1	+3	+5	+2	+2	+2	+3	-1	+1

Diurnal variation of X.

1915.

Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Group Means			Year
	I	I	II	II	III	III	III	III	II	II	I	I	I	II	III	
1	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
2	-4	-4	-8	-4	0	-3	-4	-4	-2	-5	-5	-5	-4	-5	-3	-4
3	-3	-4	-6	-4	+2	-3	-3	-5	-2	-4	-5	-3	-4	-4	-2	-3
4	-2	-5	-7	-2	+2	-3	-3	-4	-1	-4	-4	-3	-3	-3	-2	-3
5	0	-5	-6	-1	+2	-1	-2	-4	-1	-2	-2	-1	-2	-2	-1	-2
6	0	-3	-5	-2	0	-2	-3	-5	-2	-2	-2	0	-1	-3	-2	-2
7	+1	-2	-4	-2	+1	-1	-2	-6	-1	-1	0	+2	0	-2	-2	-1
8	+1	0	-4	-2	+2	+1	-1	-5	-1	+2	+4	+4	+2	-1	-1	0
9	+4	+4	+2	-1	+1	+1	0	-4	-4	+7	+10	+8	+6	+1	-1	+2
10	+8	+8	+7	+1	0	-1	0	-2	-2	+7	+12	+8	+8	+3	-1	+3
11	+2	+11	+12	+7	+2	+2	+4	+5	+4	+9	+11	+7	+8	+8	+3	+6
12	+3	+13	+18	+13	+5	+6	+9	+12	+9	+12	+10	+6	+8	+13	+8	+10
13	+4	+14	+21	+16	+8	+8	+11	+17	+10	+13	+7	+5	+7	+15	+11	+11
14	+3	+10	+19	+11	+8	+8	+10	+15	+11	+11	+4	+1	+5	+13	+10	+9
15	+1	+5	+14	+4	+5	+4	+6	+10	+5	+5	-3	-4	0	+7	+6	+4
16	+1	+1	+6	+3	+2	+1	+5	+7	0	0	-7	-4	-3	+2	+4	+1
17	-1	-4	+1	-1	-3	-2	+2	+1	-4	-6	-9	-2	-4	-2	-1	-2
18	-3	-6	-7	-8	-10	-5	-3	-4	-8	-9	-8	-2	-5	-8	-6	-6
19	-2	-7	-8	-7	-11	-5	-4	-6	-5	-8	-5	-2	-4	-7	-6	-6
20	-1	-6	-8	-6	-9	-1	-4	-6	-2	-7	-3	-2	-3	-6	-5	-5
21	-2	-5	-7	-5	-5	0	-3	-3	0	-6	-1	-2	-2	-5	-3	-3
22	-2	-4	-8	-4	-3	0	-3	-3	0	-6	1	-2	-2	-4	-2	-3
23	-2	-3	-7	-2	0	0	-4	-3	-1	-4	-1	-2	-2	-3	-2	-2
24	-2	-3	-9	-2	0	0	-4	-2	-2	-3	-1	-3	-2	-4	-1	-3
25	-1	-2	-7	-2	0	0	-3	-3	-2	-2	-2	-4	-2	-3	-1	-2

1916.

1	-1	-4	-9	-6	-5	-6	-2	-2	+2	.....	-8	-5	-4	-4	-4	-4
2	0	-4	-8	-5	-4	-4	-3	-2	+1	.....	-4	-5	-3	-4	-3	-3
3	+1	-4	-6	-4	-3	-5	-2	-2	+3	.....	-3	-4	-2	-2	-3	-3
4	+2	-4	-5	-4	-2	-4	-2	-2	+4	.....	0	-2	-1	-2	-3	-2
5	+2	-2	-3	-3	-2	-5	-3	-3	+4	.....	+2	0	0	-1	-3	-1
6	+2	0	-2	-2	-2	-5	-5	-3	+3	.....	+3	0	+1	0	-4	-1
7	+4	0	0	0	-1	-3	0	-3	+3	.....	+7	+1	+3	+1	-2	+1
8	+6	+4	+4	0	-2	-3	0	-4	-2	.....	+11	+5	+6	+1	-2	+1
9	+7	+7	+7	+2	+2	-1	+1	-4	-8	.....	+13	+7	+9	0	0	+3
10	+4	+5	+8	+5	+5	+6	+4	-9	.....	+10	+7	+6	+6	+1	+4	+4
11	+2	+2	+11	+9	+8	+13	+10	+6	.....	+7	+6	+4	+4	+5	+9	+6
12	0	+3	+14	+10	+10	+16	+13	+10	0	.....	+5	+5	+3	+8	+12	+8
13	-5	+4	+14	+9	+9	+15	+12	+9	+2	.....	+1	+3	+1	+8	+11	+7
14	-6	+5	+12	+11	+8	+11	+9	+9	+3	.....	-2	+3	0	+8	+9	+6
15	-6	+5	+7	+7	+6	+8	+5	+6	+1	.....	-6	+2	-1	+5	+6	+3
16	-7	+4	0	+3	+3	+4	-3	+1	-3	.....	-8	+1	-3	0	+1	0
17	-6	-1	-5	-4	-5	-2	-9	-4	-6	.....	-6	-2	-4	-5	-4	-4
18	-3	-4	-8	-4	-5	-4	-10	-6	-6	.....	-2	-4	-3	-6	-6	-5
19	-1	-2	-8	-5	-5	-5	-6	-5	-2	.....	-2	-4	-2	-5	-5	-4
20	+1	-2	-6	-4	-4	-6	-4	-3	+2	.....	-2	-3	-2	-3	-4	-3
21	+1	-2	-6	-3	-2	-5	-2	-2	+2	.....	-3	-3	-2	-2	-3	-2
22	0	-3	-5	-4	-1	-4	-1	0	+3	.....	-4	-4	-3	-2	-1	-2
23	+1	-3	-4	-4	-2	-3	-2	+2	+4	.....	-5	-4	-3	-1	-1	-2
24	+2	-2	-3	-4	-4	-3	0	0	+5	.....	-4	-2	-2	-1	-2	-1

Diurnal variation of Y.

1915.

Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Group Means			Year
	I	I	II	II	III	III	III	III	II	II	I	I	I	II	III	
1	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
2	+1	-2	0	+1	-1	-2	-3	-1	-1	-1	0	-1	-1	0	-2	-1
3	-1	-2	0	+3	0	-2	-1	-1	0	-1	-1	-1	-1	0	-1	-1
4	-2	-2	0	+3	+1	-2	-1	0	+1	-1	-1	-1	-1	+1	-1	0
5	-3	-3	0	+5	+1	-2	-2	+2	+2	-1	-1	-2	-2	+1	0	0
6	0	-1	+3	+7	+2	0	0	+5	+5	0	+1	-2	0	+4	+2	+2
7	0	+3	+6	+10	+3	+3	+4	+9	+9	+4	+2	+1	+2	+7	+5	+4
8	+1	+3	+8	+17	+11	+11	+16	+21	+18	+6	+2	+1	+2	+12	+15	+10
9	+2	+5	+12	+24	+20	+21	+28	+31	+30	+11	+3	+1	+3	+19	+25	+16
10	+15	+9	+17	+21	+25	+26	+34	+32	+31	+19	+12	+12	+12	+22	+29	+21
11	+23	+11	+16	+12	+20	+18	+26	+20	+19	+20	+16	+22	+18	+17	+21	+19
12	+19	+4	+10	+2	+9	+11	+12	+8	+4	+13	+11	+20	+14	+7	+10	+10
13	0	-2	0	-4	0	+4	+2	-3	-10	+3	+2	+9	+2	-3	+1	0
14	-15	-5	-4	-11	-8	0	-7	-10	-15	-6	-6	-3	-7	-9	-6	-7
15	-20	-4	-9	-17	-16	-5	-13	-17	-17	-11	-10	-10	-11	-14	-13	-13
16	-17	-4	-13	-21	-20	-12	-18	-22	-15	-13	-11	-14	-11	-16	-18	-15
17	-11	-3	-14	-21	-18	-14	-19	-21	-14	-13	-10	-13	-9	-16	-18	-14
18	-1	-1	-11	-12	-9	-12	-15	-15	-10	-11	-8	-6	-4	-11	-13	-9
19	0	-3	-9	-6	-5	-10	-10	-9	-8	-9	-4	-5	-3	-8	-9	-6
20	0	-2	-7	-4	-3	-7	-8	-6	-8	-6	-1	-4	-2	-6	-6	-5
21	0	-1	-5	-3	-4	-7	-6	-6	-7	-5	0	-3	-1	-5	-6	-4
22	+3	+1	-1	-1	-3	-5	-6	-6	-6	-1	+3	-1	+2	-2	-5	-2
23	+3	+1	0	-2	-2	-4	-5	-5	-3	+1	+3	+1	+2	-1	-4	-1
24	+2	+1	0	-1	-2	-4	-4	-3	-2	0	+1	+1	+1	-1	-3	-1
25	0	-2	0	-1	-1	-3	-5	-2	-2	-1	+1	-1	-1	-1	-3	-1

1916.

1	-2	-1	+1	+1	-1	-3	-2	-2	0	.....	+4	0	+1	-2	-1
2	-2	-1	0	+0	-1	-2	-1	-1	-1	.....	0	-1	0	-1	-1
3	-3	-2	0	+2	+2	-2	-2	-1	-1	.....	-2	-1	0	-1	-1
4	-4	-3	-1	+3	+1	-1	-2	-1	-1	.....	-2	-2	0	-1	-1
5	-3	-2	-1	+4	+4	+1	+2	+3	+2	.....	-2	+1	+2	+2	+1
6	-2	0	+1	+6	+9	+5	+4	+8	+8	.....	+1	+1	0	+5	+4
7	0	-1	+1	+9	+18	+17	+13	+21	+15	.....	0	+2	0	+8	+9
8	0	0	+4	+20	+29	+29	+26	+36	+25	.....	+3	+3	+2	+16	+16
9	+15	+9	+20	+29	+30	+32	+31	+36	+26	.....	+15	+16	+14	+25	+24
10	+29	+19	+29	+28	+19	+21	+21	+25	+18	.....	+21	+23	+23	+25	+23
11	+30	+23	+29	+20	+8	+12	+13	+9	+6	.....	+18	+15	+22	+18	+17
12	+16	+18	+16	+5	-2	+2	0	-5	-7	.....	+7	-1	+10	+5	+4
13	0	+7	+3	-9	-9	-6	-6	-14	-16	.....	-5	-10	-2	-7	-6
14	-14	-4	-11	-26	-14	-11	-11	-20	-20	.....	-15	-12	-11	-19	-14
15	-18	-13	-20	-32	-19	-18	-15	-25	-19	.....	-18	-12	-15	-24	-19
16	-15	-17	-21	-28	-20	-19	-18	-23	-13	.....	-15	-8	-14	-21	-18
17	-9	-12	-18	-15	-15	-13	-14	-15	-6	.....	-10	-6	-9	-13	-12
18	-7	-9	-13	-6	-8	-8	-9	-9	-3	.....	-6	-4	-6	-7	-7
19	-4	-6	-9	-6	-7	-6	-6	-6	-3	.....	-4	-3	-4	-6	-5
20	-4	-3	-7	-5	-8	-7	-6	-6	-3	.....	-1	-1	-2	-7	-5
21	-1	-2	-3	-2	-6	-6	-6	-4	-2	.....	+3	+2	0	-6	-2
22	+1	0	1	-1	-4	-6	-5	-3	-2	.....	+4	+2	+2	-1	-1
23	0	-1	-1	+1	-2	-6	-4	-2	-2	.....	+4	+1	+1	-1	-4
24	-3	-2	-1	+2	-2	-5	-4	-1	-2	.....	+2	-1	-1	0	-3

Diurnal variation of I.

1915.

Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Group means			Year
	I	I	II	II	III	III	III	III	II	II	I	I	I	II	III	
1	+0.4	+0.4	+0.6	+0.2	-0.1	+0.1	+0.2	+0.3	+0.2	+0.4	+0.4	+0.5	+0.4	+0.4	+0.1	+0.3
2	+0.3	+0.4	+0.5	+0.2	-0.2	+0.1	+0.1	+0.3	+0.2	+0.3	+0.5	+0.4	+0.4	+0.3	+0.1	+0.3
3	+0.3	+0.5	+0.6	+0.2	-0.2	0.0	+0.2	+0.3	+0.2	+0.4	+0.4	+0.4	+0.4	+0.3	+0.1	+0.3
4	+0.2	+0.6	+0.6	+0.2	-0.1	0.0	+0.2	+0.3	+0.3	+0.4	+0.3	+0.4	+0.4	+0.4	+0.1	+0.3
5	+0.2	+0.5	+0.6	+0.2	0.0	0.0	+0.2	+0.4	+0.3	+0.4	+0.3	+0.3	+0.3	+0.4	+0.2	+0.3
6	+0.1	+0.4	+0.5	+0.3	-0.1	0.0	+0.1	+0.6	+0.3	+0.3	+0.2	+0.2	+0.2	+0.3	+0.1	+0.2
7	+0.2	+0.3	+0.5	+0.2	-0.1	-0.1	+0.1	+0.5	+0.3	+0.2	0.0	0.0	+0.1	+0.3	+0.1	+0.2
8	+0.1	+0.1	+0.2	0.0	0.0	0.0	0.0	+0.4	+0.2	-0.2	-0.5	-0.2	-0.1	0.0	+0.1	0.0
9	-0.2	-0.3	-0.4	-0.2	0.0	-0.1	-0.3	0.0	-0.1	-0.5	-0.7	-0.5	-0.4	-0.3	-0.1	-0.3
10	-0.4	-0.7	-0.9	-0.6	-0.2	-0.1	-0.5	-0.5	-0.5	-0.7	-0.7	-0.6	-0.6	-0.7	-0.3	-0.5
11	-0.7	-1.0	-1.4	-1.0	-0.3	-0.3	-0.6	-0.9	-0.7	-1.0	-0.8	-0.7	-0.8	-1.0	-0.5	-0.8
12	-0.7	-1.1	-1.6	-1.1	-0.5	-0.3	-0.6	-1.2	-0.8	-1.1	-0.7	-0.7	-0.8	-1.1	-0.6	-0.9
13	-0.6	-1.0	-1.6	-0.9	-0.5	-0.3	-0.5	-1.1	-0.8	-0.9	-0.5	-0.5	-0.7	-1.0	-0.6	-0.8
14	-0.5	-0.8	-1.3	-0.4	-0.3	-0.1	-0.3	-0.9	-0.4	-0.7	-0.2	-0.3	-0.4	-0.7	-0.4	-0.5
15	-0.4	-0.4	-0.7	-0.2	0.0	+0.1	-0.2	-0.5	-0.1	-0.4	+0.2	-0.1	-0.2	0.0	-0.2	-0.2
16	0.0	-0.1	-0.4	+0.1	+0.4	+0.4	+0.1	-0.1	+0.2	+0.1	+0.3	0.0	0.0	0.0	+0.2	+0.1
17	0.0	+0.2	+0.2	+0.5	+0.6	+0.4	+0.3	+0.2	+0.3	+0.3	+0.4	+0.1	+0.2	+0.3	+0.4	+0.3
18	+0.1	+0.3	+0.4	+0.5	+0.7	+0.3	+0.3	+0.3	+0.3	+0.4	+0.3	+0.2	+0.2	+0.4	+0.4	+0.3
19	+0.2	+0.4	+0.6	+0.5	+0.6	0.0	+0.3	+0.5	+0.3	+0.4	+0.2	+0.2	+0.2	+0.5	+0.3	+0.3
20	+0.3	+0.4	+0.7	+0.4	+0.3	0.0	+0.3	+0.3	+0.1	+0.5	+0.1	+0.2	+0.2	+0.4	+0.2	+0.3
21	+0.3	+0.4	+0.6	+0.3	+0.2	-0.1	+0.2	+0.3	0.0	+0.5	+0.1	+0.2	+0.2	+0.3	+0.1	+0.2
22	+0.3	+0.3	+0.5	+0.1	0.0	0.0	+0.2	+0.2	+0.1	+0.3	+0.1	+0.1	+0.2	+0.2	+0.1	+0.2
23	+0.3	+0.3	+0.6	+0.1	0.0	-0.1	+0.2	+0.2	+0.1	+0.3	+0.2	+0.2	+0.2	+0.3	+0.1	+0.2
24	+0.3	+0.3	+0.5	+0.1	0.0	0.0	+0.2	+0.2	+0.2	+0.3	+0.2	+0.3	+0.3	+0.3	+0.1	+0.2

1916.

1	+0.2	+0.3	+0.7	+0.5	+0.2	+0.3	+0.1	+0.1	0.0	+0.3	+0.7	+0.4	+0.4	+0.4	+0.2	+0.3
2	+0.2	+0.3	+0.7	+0.4	+0.2	+0.1	+0.1	+0.1	0.0	+0.2	+0.5	+0.5	+0.4	+0.3	+0.1	+0.3
3	+0.2	+0.4	+0.6	+0.3	+0.2	+0.2	+0.1	+0.1	0.0	+0.2	+0.5	+0.5	+0.4	+0.3	+0.2	+0.3
4	+0.2	+0.5	+0.6	+0.3	+0.3	+0.2	+0.1	+0.2	-0.1	+0.1	+0.3	+0.5	+0.4	+0.2	+0.2	+0.3
5	+0.1	+0.3	+0.5	+0.3	+0.2	+0.3	+0.1	+0.3	-0.1	+0.1	+0.2	+0.3	+0.2	+0.2	+0.2	+0.2
6	+0.1	+0.2	+0.4	+0.3	+0.3	+0.4	+0.3	+0.3	0.0	0.0	0.0	+0.3	+0.2	+0.2	+0.3	+0.2
7	0.0	+0.2	+0.3	+0.2	+0.2	+0.3	+0.1	+0.3	0.0	0.0	-0.2	+0.2	0.0	+0.1	+0.2	+0.1
8	-0.2	+0.1	0.0	+0.1	+0.1	+0.2	-0.1	+0.3	0.0	0.0	-0.5	-0.1	-0.2	0.0	+0.1	0.0
9	-0.4	-0.3	-0.4	-0.1	-0.3	0.0	-0.2	+0.1	+0.1	-0.1	-0.8	-0.4	-0.5	-0.1	-0.1	-0.2
10	-0.5	-0.3	-0.6	-0.4	-0.5	-0.3	-0.4	-0.1	+0.2	-0.2	-0.8	-0.7	-0.6	-0.3	-0.3	-0.4
11	-0.5	-0.3	-0.9	-0.7	-0.5	-0.7	-0.6	-0.5	+0.1	-0.4	-0.7	-0.8	-0.6	-0.5	-0.6	-0.5
12	-0.4	-0.5	-1.2	-0.8	-0.6	-0.9	-0.7	-0.7	-0.2	-0.5	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7
13	-0.1	-0.6	-1.2	-0.7	-0.4	-0.9	-0.6	-0.7	-0.4	-0.4	-0.4	-0.6	-0.4	-0.7	-0.7	-0.6
14	0.0	-0.7	-1.1	-0.8	-0.2	-0.7	-0.4	-0.7	-0.4	-0.2	-0.2	-0.6	-0.4	-0.6	-0.5	-0.5
15	0.0	-0.7	-0.8	-0.6	-0.1	-0.4	-0.2	-0.5	-0.2	-0.2	+0.1	-0.5	-0.3	-0.4	-0.3	-0.3
16	+0.2	-0.4	-0.2	-0.3	+0.1	-0.1	+0.3	-0.1	+0.1	0.0	+0.4	-0.2	0.0	-0.1	+0.1	0.0
17	+0.2	-0.1	+0.1	0.0	+0.2	+0.1	+0.6	+0.2	+0.3	0.0	+0.3	+0.1	+0.1	+0.1	+0.3	+0.2
18	+0.2	+0.1	+0.3	+0.1	+0.3	+0.3	+0.5	+0.3	+0.4	0.0	+0.1	+0.3	+0.2	+0.2	+0.4	+0.2
19	+0.2	+0.2	+0.4	+0.3	+0.2	+0.3	+0.3	+0.3	+0.3	0.0	+0.1	+0.3	+0.2	+0.3	+0.3	+0.2
20	+0.1	+0.3	+0.4	+0.3	+0.1	+0.4	+0.2	+0.3	+0.1	+0.2	+0.1	+0.3	+0.2	+0.2	+0.2	+0.2
21	+0.1	+0.2	+0.4	+0.3	0.0	+0.3	+0.1	+0.3	0.0	+0.2	+0.1	+0.3	+0.2	+0.2	+0.2	+0.2
22	+0.1	+0.2	+0.3	+0.3	-0.1	+0.2	0.0	+0.1	0.0	+0.2	+0.2	+0.3	+0.2	+0.2	+0.1	+0.2
23	0.0	+0.2	+0.3	+0.3	0.0	+0.1	0.0	0.0	-0.1	+0.3	+0.3	+0.3	+0.2	+0.2	0.0	+0.1
24	+0.1	+0.2	+0.3	+0.3	0.0	+0.1	-0.1	0.0	-0.2	+0.2	+0.3	+0.2	+0.2	+0.2	0.0	+0.1

Diurnal variation of F.

1915.

Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Group means			Year
	I	I	II	II	III	III	III	III	II	II	I	I	I	II	III	
1	γ 0	γ 1	γ 3	γ 3	γ 2	γ 3	γ 3	γ 2	γ 0	γ 1	γ 1	γ 0	γ 0	γ 2	γ 3	γ 1
2	0	+ 0	- 2	- 3	- 2	- 3	- 3	- 2	0	- 1	- 0	+ 2	+ 1	- 2	- 2	- 1
3	+ 2	0	- 1	- 0	0	- 4	- 1	- 1	+ 2	+ 1	+ 1	+ 2	+ 2	- 0	- 1	0
4	+ 4	+ 1	+ 1	+ 2	+ 1	- 1	0	- 1	+ 2	+ 3	+ 3	+ 5	+ 3	+ 2	0	+ 1
5	+ 3	+ 3	+ 1	0	0	- 3	- 2	- 2	+ 2	+ 3	+ 2	+ 5	+ 3	+ 2	- 2	+ 1
6	+ 4	+ 3	+ 2	0	0	- 2	- 1	- 1	+ 2	+ 3	+ 3	+ 6	+ 4	+ 2	- 1	+ 2
7	+ 5	+ 5	+ 2	- 1	+ 1	- 2	- 1	- 1	+ 1	+ 6	+ 6	+ 6	+ 5	+ 2	- 1	+ 2
8	+ 7	+ 8	+ 5	- 4	0	- 3	- 4	- 4	- 6	+ 9	+ 9	+ 9	+ 8	+ 1	- 3	+ 2
9	+ 1	+ 6	+ 4	- 4	- 2	- 4	- 8	- 6	- 8	+ 2	+ 6	+ 4	+ 4	+ 1	- 5	- 1
10	- 5	+ 5	+ 4	0	- 1	0	- 4	- 1	- 3	+ 1	+ 4	0	+ 1	+ 1	- 2	0
11	- 7	+ 4	+ 5	+ 5	+ 1	+ 3	+ 4	+ 4	+ 3	+ 2	+ 2	- 3	- 1	+ 4	+ 3	+ 2
12	- 4	+ 5	+ 8	+ 8	+ 5	+ 8	+ 8	+ 8	+ 5	+ 4	+ 1	- 4	- 1	+ 6	+ 7	+ 4
13	- 3	0	+ 5	+ 5	+ 4	+ 8	+ 8	+ 7	+ 7	+ 2	- 2	- 7	- 3	+ 5	+ 7	+ 3
14	- 4	- 5	+ 2	+ 2	+ 5	+ 5	+ 6	+ 4	+ 3	- 2	- 6	- 9	- 6	+ 1	+ 5	0
15	- 3	- 8	0	+ 3	+ 3	+ 5	+ 6	+ 4	0	- 4	- 7	- 6	- 6	0	+ 5	0
16	- 1	- 8	- 3	+ 2	+ 3	+ 4	+ 7	+ 2	- 2	- 6	- 7	- 2	- 4	- 2	+ 4	- 1
17	- 4	- 7	- 7	- 3	- 4	0	+ 1	- 1	- 6	- 7	- 7	- 2	- 5	- 6	- 1	- 4
18	- 1	- 6	- 6	- 3	- 6	- 2	0	- 2	- 2	- 4	- 3	0	- 3	- 4	- 3	- 3
19	+ 1	- 4	- 3	- 1	- 5	- 1	- 2	- 2	+ 1	- 4	- 2	0	- 1	- 2	- 2	- 2
20	+ 2	- 1	- 1	- 1	- 2	- 1	0	0	+ 2	- 2	0	0	0	- 1	- 1	0
21	+ 1	0	- 3	- 2	- 2	- 2	- 2	0	+ 1	- 2	- 1	0	0	- 1	- 1	- 1
22	+ 1	0	- 3	- 1	- 1	- 1	- 3	- 1	- 1	- 1	- 1	- 1	0	- 1	- 1	- 1
23	+ 1	0	- 5	- 1	- 1	- 2	- 3	0	- 2	0	+ 1	- 1	0	- 2	- 1	- 1
24	+ 2	+ 1	- 3	- 2	- 1	- 1	- 1	- 2	0	+ 2	0	- 1	+ 1	- 1	- 1	0

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1	+ 2	- 1	- 3	- 1	- 4	- 5	- 1	- 1	+ 4	+ 2	- 2	- 2	- 1	0	- 3	- 1
2	+ 3	- 1	- 1	- 1	- 2	- 4	- 3	- 2	+ 2	+ 3	+ 3	0	+ 2	+ 1	- 3	0
3	+ 5	0	+ 1	- 1	- 3	- 5	- 1	- 1	+ 4	+ 3	+ 4	+ 1	+ 4	+ 2	- 3	+ 2
4	+ 6	+ 1	+ 1	- 1	0	- 3	- 1	0	+ 5	+ 5	+ 6	+ 4	+ 5	+ 3	- 1	+ 2
5	+ 5	+ 2	+ 3	0	0	- 3	- 3	0	+ 4	+ 5	+ 5	+ 5	+ 5	+ 3	- 1	+ 2
6	+ 5	+ 4	+ 3	+ 1	0	- 2	- 2	+ 4	+ 4	+ 5	+ 5	+ 5	+ 5	+ 3	- 1	+ 2
7	+ 6	+ 4	+ 5	+ 2	0	- 1	0	- 1	+ 4	+ 5	+ 8	+ 5	+ 6	+ 4	0	+ 3
8	+ 7	+ 7	+ 6	0	- 3	- 4	- 3	- 5	- 4	+ 3	+ 9	+ 6	+ 7	+ 4	- 4	+ 2
9	+ 3	+ 5	+ 3	- 2	- 5	- 4	- 5	- 8	- 12	- 4	+ 6	+ 3	+ 4	- 1	- 5	- 2
10	- 5	+ 1	0	- 1	- 1	+ 2	- 1	- 4	- 13	- 5	+ 2	- 2	- 1	- 5	+ 5	- 1
11	- 9	- 3	0	+ 1	+ 4	+ 8	+ 5	+ 2	- 8	- 4	- 4	- 5	- 5	- 3	+ 8	+ 1
12	- 8	- 4	+ 1	+ 3	+ 6	+ 11	+ 10	+ 5	- 3	- 3	- 3	- 5	- 5	0	+ 8	+ 1
13	- 9	- 4	+ 3	+ 3	+ 8	+ 9	+ 10	+ 4	- 1	- 4	- 6	- 4	- 6	0	+ 8	+ 1
14	- 9	- 3	+ 3	+ 6	+ 10	+ 8	+ 9	+ 4	0	- 7	- 5	- 3	- 5	0	+ 7	+ 1
15	- 8	- 2	0	+ 5	+ 9	+ 7	+ 7	+ 4	0	- 7	- 6	- 3	- 3	0	+ 4	0
16	- 6	+ 1	- 2	+ 3	+ 7	+ 6	+ 2	+ 2	- 1	- 6	- 5	- 2	- 3	- 2	+ 1	- 2
17	- 5	- 2	- 4	- 4	+ 1	- 3	- 3	- 1	- 5	- 3	- 3	- 1	- 3	- 4	- 1	- 3
18	- 1	- 3	- 6	- 4	- 3	- 2	- 6	- 3	- 3	- 1	- 1	- 2	- 2	- 3	- 4	- 3
19	+ 2	0	- 4	- 3	- 4	- 2	- 5	- 2	+ 1	0	- 1	- 1	0	- 2	- 3	- 2
20	+ 4	+ 1	- 3	- 1	- 4	- 3	- 3	0	+ 4	+ 1	- 1	0	+ 1	0	- 3	0
21	+ 3	0	- 3	0	- 3	- 3	- 1	+ 1	+ 4	+ 2	- 3	0	0	+ 1	- 2	0
22	+ 2	- 1	- 2	- 2	- 3	- 3	- 1	+ 2	+ 4	+ 3	- 3	- 1	- 1	+ 1	- 1	0
23	+ 2	- 1	- 1	- 2	- 4	- 3	- 3	+ 3	+ 4	+ 2	- 3	- 2	- 1	+ 1	- 2	- 1
24	+ 4	0	0	- 2	- 6	- 3	- 2	+ 1	+ 5	+ 5	- 1	0	+ 1	+ 2	- 2	0

Diurnal variation of D.

[International quiet days, Greenwich mean time.]

1915.

Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Group Means			Year
	I	I	II	II	III	III	III	III	II	II	I	I	I	II	III	
1	+0.4	0.0	-0.3	-0.1	-0.4	-0.5	-0.8	-0.8	-0.6	-0.2	+0.2	-0.2	+0.1	-0.3	-0.6	-0.3
2	+0.4	+0.1	0.0	-0.1	-0.3	-0.4	-0.7	-0.7	-0.4	-0.1	+0.2	+0.1	+0.2	-0.2	-0.5	-0.2
3	+0.2	0.0	-0.1	0.0	-0.2	-0.3	-0.4	-0.4	-0.3	-0.1	+0.1	-0.1	0.0	-0.1	-0.3	-0.1
4	0.0	-0.3	-0.2	-0.1	-0.2	-0.4	-0.5	-0.3	-0.3	-0.2	0.0	-0.3	-0.1	-0.2	-0.3	-0.2
5	0.0	-0.3	0.0	+0.1	-0.1	-0.2	-0.3	-0.3	0.0	-0.1	+0.1	-0.5	-0.2	0.0	-0.2	-0.1
6	-0.2	-0.3	+0.1	+0.3	0.0	-0.1	-0.1	-0.2	+0.2	-0.1	+0.1	-0.5	-0.2	+0.1	-0.1	-0.1
7	-0.2	-0.3	0.0	+0.4	+0.2	-0.1	-0.1	-0.1	+0.2	-0.2	0.0	-0.5	-0.2	+0.1	0.0	-0.1
8	-0.2	-0.3	0.0	+0.6	+0.2	-0.1	-0.1	0.0	+0.3	-0.2	0.0	-0.5	-0.2	+0.2	0.0	0.0
9	+0.1	-0.1	+0.4	+0.9	+0.4	+0.2	+0.1	+0.3	+0.7	0.0	+0.2	-0.4	0.0	+0.5	+0.2	+0.2
10	+0.2	+0.1	+0.6	+1.1	+0.6	+0.6	+0.3	+0.6	+1.2	+0.3	+0.4	-0.1	+0.1	+0.8	+0.5	+0.5
11	+0.3	+0.2	+1.0	+1.9	+1.3	+1.8	+1.6	+2.1	+2.1	+0.6	+0.2	0.0	+0.2	+1.4	+1.7	+1.1
12	+0.6	+0.7	+1.7	+2.8	+2.5	+2.9	+3.0	+3.3	+3.1	+1.4	+0.3	0.0	+0.4	+2.2	+2.9	+1.9
13	+1.7	+1.5	+2.6	+2.7	+2.9	+3.1	+3.9	+3.3	+3.0	+2.1	+1.4	+1.2	+1.4	+2.6	+3.3	+2.4
14	+2.6	+1.8	+2.6	+1.5	+2.5	+1.8	+3.0	+2.5	+1.9	+2.0	+1.7	+2.1	+2.0	+2.0	+2.5	+2.2
15	+2.1	+1.2	+1.8	+0.2	+1.4	+0.8	+1.7	+1.4	+0.4	+1.4	+1.4	+2.1	+1.7	+0.9	+1.3	+1.3
16	-0.1	0.0	+0.4	-0.6	+0.4	+0.1	+0.6	-0.9	+0.6	+0.6	+0.6	+1.4	+0.5	-0.1	+0.3	+0.2
17	-1.7	-0.5	-0.5	-1.4	-1.0	-0.4	-1.0	-0.4	-1.7	-0.1	-0.4	+0.3	-0.6	-0.9	-0.7	-0.7
18	-2.4	-0.7	-1.6	-2.2	-2.0	-1.1	-1.7	-1.6	-1.9	-0.6	-1.1	-0.4	-1.2	-1.6	-1.6	-1.4
19	-2.1	-0.7	-2.1	-2.5	-2.6	-1.6	-1.8	-2.3	-1.7	-1.2	-1.5	-0.8	-1.3	-1.9	-2.1	-1.7
20	-1.3	-0.6	-2.2	-2.6	-2.3	-1.8	-1.8	-2.5	-1.5	-1.4	-1.5	-1.0	-1.1	-1.9	-2.1	-1.7
21	-0.2	-0.4	-1.7	-1.5	-1.3	-1.5	-1.4	-1.8	-1.1	-1.2	-1.3	-0.7	-0.7	-1.4	-1.5	-1.2
22	-0.1	-0.6	-1.1	-0.6	-0.9	-1.2	-1.3	-1.1	-0.9	-1.1	-0.8	-0.5	-0.5	-0.9	-1.1	-0.9
23	0.0	-0.4	-0.9	-0.4	-0.4	-0.8	-1.0	-0.9	-0.8	-0.8	-0.2	-0.3	-0.2	-0.7	-0.8	-0.6
24	0.0	-0.1	-0.6	-0.3	-0.6	-0.7	-0.9	-0.8	-0.8	-0.8	-0.2	-0.2	-0.1	-0.6	-0.8	-0.5

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1	0.0	0.0	-0.2	-0.6	-0.8	-0.7	-0.5	-0.3	-0.4	+0.1	+0.1	0.0	-0.4	-0.6	-0.3
2	0.0	+0.3	-0.1	-0.4	-0.7	-0.5	-0.5	-0.3	-0.3	+0.5	+0.2	+0.2	-0.3	-0.5	-0.2
3	0.0	+0.2	0.0	-0.3	-0.5	-0.5	-0.5	-0.3	-0.3	.....	+0.3	0.0	+0.1	-0.2	-0.4	-0.2
4	-0.2	+0.1	-0.1	-0.2	-0.5	-0.5	-0.5	-0.3	-0.4	.....	0.0	-0.3	-0.1	-0.2	-0.4	-0.3
5	-0.2	0.0	0.0	-0.1	-0.5	-0.3	-0.5	-0.3	-0.2	.....	+0.3	-0.2	0.0	-0.1	-0.4	-0.2
6	-0.3	-0.1	0.0	-0.2	-0.3	-0.4	-0.3	-0.2	-0.3	.....	-0.1	-0.4	-0.2	-0.2	-0.3	-0.2
7	-0.4	-0.2	-0.2	-0.1	+0.1	-0.3	-0.2	-0.3	-0.3	.....	-0.3	-0.6	-0.4	-0.2	-0.2	-0.3
8	-0.5	-0.2	-0.3	-0.1	-0.1	-0.2	-0.3	-0.2	-0.3	.....	-0.2	-0.6	-0.4	-0.2	-0.2	-0.3
9	-0.4	0.0	-0.2	0.0	+0.2	+0.1	+0.2	+0.3	0.0	.....	-0.1	-0.3	-0.2	-0.1	+0.2	0.0
10	-0.2	0.0	-0.1	+0.2	+0.8	+0.6	+0.4	+0.8	+1.0	.....	0.0	-0.2	-0.1	+0.4	+0.6	+0.3
11	0.0	0.0	-0.1	+0.6	+1.8	+2.1	+1.4	+2.8	+1.6	.....	-0.1	-0.1	0.0	+0.7	+2.0	+0.9
12	+0.2	+0.1	+0.4	+2.0	+3.4	+3.5	+3.0	+4.7	+2.7	.....	+0.4	+0.2	+0.2	+1.7	+3.6	+1.9
13	+2.0	+1.2	+2.1	+3.0	+3.8	+3.8	+3.7	+5.0	+2.9	.....	+1.9	+1.9	+1.8	+2.7	+4.1	+2.8
14	+3.9	+2.1	+3.4	+3.5	+2.6	+2.5	+2.8	+3.3	+2.2	.....	+2.9	+3.0	+3.0	+3.0	+2.8	+2.9
15	+3.7	+2.8	+3.7	+3.4	+1.1	+1.4	+1.7	+1.2	+1.0	.....	+2.4	+2.5	+2.9	+2.7	+1.4	+2.3
16	+1.7	+2.0	+2.4	+2.1	0.0	+0.4	+0.1	-0.7	-0.3	.....	+1.1	+0.7	+1.4	+1.4	0.0	+0.9
17	-0.5	+0.6	+0.9	+0.4	-0.6	-0.7	0.8	-2.0	-1.2	.....	-0.3	-0.6	-0.2	0.0	-1.0	-0.4
18	-2.1	-1.0	-1.0	-1.7	-1.4	-1.5	-1.4	-2.6	-1.7	.....	-1.7	-1.2	-1.5	-1.5	-1.7	-1.6
19	-2.6	-1.9	-2.2	-2.8	-2.0	-2.3	-1.9	-3.1	-1.9	.....	-2.2	-1.3	-2.0	-2.3	-2.3	-2.2
20	-2.0	-2.0	-2.5	-3.0	-2.1	-2.6	-2.2	-3.0	-1.6	.....	-1.9	-1.0	-1.7	-2.4	-2.5	-2.2
21	-0.8	-1.4	-2.2	-2.1	-1.5	-1.8	-1.7	-2.0	-0.7	.....	-1.4	-0.6	-1.0	-1.7	-1.8	-1.5
22	-0.6	-1.0	-1.7	-1.2	-0.8	-0.8	-1.0	-1.3	-0.6	.....	-0.8	-0.6	-0.8	-1.2	-1.0	-0.9
23	-0.3	-0.8	-1.1	-1.5	-1.0	-0.6	-0.6	-0.7	-0.5	.....	-0.5	-0.5	-0.5	-1.0	-0.7	-0.7
24	-0.5	-0.5	-0.8	-1.0	-1.0	-0.8	-0.5	-0.6	-0.6	.....	-0.2	-0.3	-0.4	-0.8	-0.7	-0.6

Diurnal variation of H.

[International quiet days, Greenwich mean time.]

1915.

Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Group Means			Year
	I	I	II	II	III	III	III	III	II	II	I	I	I	II	III	
1	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
2	-2	-6	-7	-6	-5	-2	-1	-4	0	-2	-3	-4	-4	-4	-3	-4
3	-1	-5	-4	-4	-1	0	-1	-2	0	0	-2	-4	-3	-2	-1	-2
4	-2	-5	-5	-3	-1	0	-1	-1	-1	-1	-4	-4	-4	-3	-1	-2
5	-2	-4	-4	-2	0	0	-1	-2	0	0	-4	-3	-3	-1	-1	-2
6	-1	-5	-5	-4	-1	0	-1	-3	-2	-1	-5	-3	-3	-3	-1	-3
7	0	-4	-6	-3	-1	0	-1	-3	-2	-1	-3	-1	-2	-3	-1	-2
8	+1	-3	-5	-1	0	+1	0	-3	-2	-1	-1	0	-1	-2	0	-1
9	+1	-2	-4	-1	-2	0	-1	-5	-2	0	0	0	0	-2	-2	-1
10	+1	-2	-3	-2	-1	+1	-2	-4	-2	0	+1	+2	+2	-2	-1	-1
11	+2	-1	-3	-1	0	+1	-1	-4	-2	+4	+4	+3	+2	0	-1	0
12	+6	+3	+1	-2	-1	-2	-1	-2	-5	+5	+8	+7	+6	0	-1	+1
13	+5	+6	+4	-2	-1	-3	-2	+1	-3	+4	+10	+7	+7	+1	-1	+2
14	+4	+10	+9	+5	+1	+1	+2	+8	+2	+5	+9	+6	+7	+5	+3	+5
15	+5	+14	+15	+13	+5	+6	+5	+14	+7	+5	+8	+6	+8	+10	+7	+9
16	+3	+16	+20	+18	+9	+9	+9	+14	+11	+6	+7	+6	+8	+14	+10	+11
17	+1	+14	+17	+14	+8	+8	+9	+9	+12	+4	+5	0	+5	+12	+9	+8
18	0	+8	+12	+8	+6	+4	+8	+3	+8	+1	0	-4	+1	+7	+5	+4
19	-2	+2	+5	+3	+4	-1	+3	+2	+2	-3	-4	-4	-2	+2	+2	+1
20	-2	-2	-1	0	+1	-4	-2	0	-4	-7	-7	-3	-3	+3	+2	-2
21	-5	-7	-7	-8	-5	-7	-7	-2	-8	-7	-6	-4	-5	-8	-5	-6
22	-4	-9	-9	-7	-7	-6	-7	-6	-6	-4	-4	-2	-5	-7	-7	-6
23	-2	-8	-8	-6	-6	-2	-5	-6	-2	-3	-2	-2	-3	-5	-5	-4
24	-2	-7	-7	-4	-3	-2	-2	-4	0	-2	-1	-2	-3	-3	-3	-3

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1	0	-3	-5	-4	-5	-5	-4	-3	0	-1	-5	+2	-2	-2	-4	-3
2	0	-3	-5	-4	-4	-4	-2	-2	-1	-1	-8	0	-3	-3	-3	-3
3	0	-3	-4	-5	-5	-4	0	-2	+1	-1	-8	0	-3	-2	-3	-3
4	+1	-2	-4	-6	-5	-3	+1	-1	+1	0	-6	+1	-2	-2	-2	-2
5	0	-2	-4	-7	-4	-4	+1	-1	+1	0	-6	-1	-2	-2	-2	-2
6	+1	-2	-3	-8	-2	-3	0	0	+1	+1	-2	-2	-1	-2	-1	-2
7	+1	-2	-2	-7	-3	-5	+1	0	+1	+3	-1	-2	-1	-1	-2	-1
8	+3	-2	-1	-7	-2	-6	+1	0	+2	+4	+1	0	0	0	-2	-1
9	+3	-1	+1	-6	-1	-6	0	-3	+3	+4	+3	+2	+2	0	-2	0
10	+3	+1	+1	-3	-3	-6	-4	-4	+4	+5	+4	+3	+3	+2	-4	0
11	+5	+2	+2	-3	-3	-5	-1	-5	+3	+4	+8	+5	+5	+2	-4	+1
12	+7	+5	+5	-1	-3	-7	0	-8	-1	+2	+14	+6	+8	+1	-4	+2
13	+6	+7	+4	+1	-1	-1	+2	-9	-4	-2	+14	+5	+8	0	-2	+2
14	+2	+4	+3	+6	+3	+6	+9	-2	-6	-2	+10	+4	+5	0	+4	+3
15	0	0	+4	+10	+9	+12	+14	+7	-5	-1	+8	+2	+2	+2	+10	+5
16	-3	0	+8	+11	+12	+17	+14	+12	-1	+1	+8	-2	+1	+5	+14	+6
17	-8	+3	+9	+12	+10	+16	+10	+14	+3	-2	+1	-4	-2	+6	+12	+5
18	-6	+4	+9	+12	+10	+12	+7	+14	+4	-3	-2	-4	-2	+6	+11	+5
19	-3	+5	+3	+10	+9	+9	+2	+9	+1	-4	-8	-3	-2	+2	+7	+2
20	-4	+3	+1	+7	+4	+5	-6	+3	-2	-5	-8	-3	-3	0	+4	-1
21	-5	-2	-3	+2	-1	-2	-12	-3	-4	-2	-7	-2	-4	-2	-4	-3
22	-4	-5	-6	-3	-5	-5	-14	-6	-3	0	-4	-3	-4	-3	-8	-5
23	-2	-5	-6	-4	-5	-6	-10	-7	0	0	-3	-1	-3	-2	-7	-4
24	+1	-4	-4	-3	-5	-6	-6	-5	+1	-1	-2	0	-1	-2	-6	-3

Diurnal variation of X.

[International quiet days, Greenwich mean time.]

1915.

Heur	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Group Means			Year
	I	I	II	II	III	III	III	III	II	II	I	I	I	II	III	
1	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
2	-2	-6	-7	-6	-5	-2	-1	-4	0	-2	-3	-4	-4	-4	-3	-4
3	-1	-5	-4	-4	-1	0	-1	-2	0	0	-2	-4	-3	-2	-1	-2
4	-2	-5	-5	-3	-1	0	-1	-1	-1	-1	-4	-4	-4	-3	-1	-2
5	-2	-4	-4	-2	0	0	-1	-2	0	0	-4	-3	-3	-1	-1	-2
6	-1	-5	-5	-4	-1	0	-1	-3	-2	-1	-5	-3	-3	-3	-1	-3
7																
8	0	-4	-6	-3	-1	0	-1	-3	-2	-1	-3	-1	-2	-3	-1	-2
9	+1	-3	-5	-1	0	+1	0	-3	-2	0	-1	0	-1	-2	-1	-1
10	+1	-2	-4	-1	-2	0	-1	-5	-2	0	0	0	0	-2	-2	-1
11	+2	-1	-3	-1	-1	+1	-2	-4	-1	0	+1	+2	+2	-1	-1	-1
12	+6	+3	+2	-1	+1	+2	0	-3	-1	+4	+4	+3	+2	0	0	+1
13																
14	+6	+7	+5	-1	0	-2	0	+3	-2	+5	+11	+8	+8	+2	0	+3
15	+5	+11	+10	+6	+2	+2	+3	+9	+3	+6	+10	+7	+8	+6	+8	+6
16	+6	+15	+16	+13	+6	+6	+6	+15	+7	+6	+9	+7	+9	+10	+9	+9
17	+3	+16	+20	+18	+9	+9	+9	+14	+11	+6	+7	+7	+7	+14	+10	+11
18	0	+14	+17	+13	+8	+8	+10	+9	+11	+4	+5	0	+5	+11	+9	+8
19	-1	+8	+11	+7	+5	+3	+7	+2	+7	+1	-1	-4	0	+6	+4	+4
20	-3	+2	+4	+2	+3	-2	+2	+1	+1	-4	-5	-4	-3	+1	+1	0
21	-3	-2	-2	-1	0	-5	-3	-1	-5	-8	-8	-3	-4	-4	-2	-3
22	-5	-7	-8	-9	-6	-8	-8	-3	-8	-8	-7	-4	-6	-8	-7	-6
23	-4	-9	-9	-7	-7	-7	-8	-6	-6	-5	-4	-2	-5	-7	-7	-4
24	-2	-8	-9	-6	-6	-2	-5	-6	-2	-3	-2	-2	-3	-5	-3	-3
24	-2	-7	-7	-4	-3	-2	-2	-4	0	-2	-1	-2	-3	-3	-3	-3

1916.

1	0	-3	-5	-4	-5	-5	-4	-3	0		-5	+2	-2	-3	-4	-3
2	0	-3	-5	-4	-4	-4	-2	-2	-1		-8	0	-3	-3	-3	-3
3	0	-3	-4	-5	-5	-4	0	-2	+1		-8	0	-3	-3	-3	-3
4	+1	-2	-4	-6	-5	-3	+1	-1	+1		-6	+1	-2	-3	-2	-2
5	0	-2	-4	-7	-4	-4	+1	-1	+1		-6	-1	-2	-3	-2	-2
6	+1	-2	-3	-8	-2	-3	0	0	+1		-2	-2	-1	-3	-1	-2
7																
8	+1	-2	-2	-7	-3	-5	+1	0	+1		-1	-2	-1	-3	-2	-2
9	+3	-2	-1	-7	-2	-6	+1	0	+2		+1	0	0	-2	-2	-1
10	+3	-1	+1	-6	-1	-6	0	-3	+3		+3	+2	+2	-1	-2	0
11	+5	+2	+2	-3	-3	-6	-4	-4	+4		+4	+3	+3	+1	-4	0
12	+7	+5	+5	0	-1	-5	+1	-6	0		+8	+5	+5	+1	-2	+1
13											+14	+6	+8	+2	-3	+2
14	+7	+8	+5	+2	+1	+1	+4	-7	-3		+15	+6	+9	+1	0	+4
15	+4	+5	+5	+8	+4	+7	+10	0	-5		+11	+5	+6	+3	+5	+5
16	+2	+1	+6	+12	+10	+13	+15	+8	-5		+9	+3	+4	+4	+12	+7
17	-2	+1	+9	+12	+12	+17	+14	+12	-1		+9	-2	+2	+7	+14	+7
18	-8	+3	+9	+12	+10	+16	+10	+13	+2		+1	-4	-2	+8	+12	+6
19	-7	+4	+9	+11	+9	+11	+6	+13	+3		-3	-5	-3	+8	+10	+5
20																
21	-4	+4	+2	+9	+8	+8	+1	+8	0		-9	-4	-3	+4	+6	+2
22	-5	+2	-2	+6	+3	+4	-7	+2	-3		-9	-3	-4	0	0	-1
23	-5	-3	-4	+1	-2	-3	-13	-4	-4		-8	-2	-4	-2	-6	-4
24	-4	-5	-7	-4	-5	-5	-14	-7	-3		-4	-3	-4	-5	-8	-6
23	-2	-5	-7	-5	-5	-6	-10	-7	0		-3	-1	-3	-4	-7	-5
24	+1	-4	-4	-3	-5	-6	-6	-5	+1		-2	0	-1	-2	-6	-3

Diurnal variation of Y.

[International quiet days, Greenwich mean time.]

1915.

Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Group Means			Year
	I	I	II	II	III	III	III	III	II	II	I	I	I	II	III	
1	γ +3	γ 0	γ -2	γ 0	γ -3	γ -4	γ -6	γ -6	γ -5	γ -2	γ +2	γ -1	γ +1	γ -2	γ -5	γ -2
2	+3	+1	0	-1	-2	-3	-6	-6	-3	-1	+2	+1	+2	-1	-4	-1
3	+2	0	-1	0	-2	-2	-3	-3	-2	-1	+1	-1	0	-1	-2	-1
4	0	-2	-1	-1	-2	-3	-4	-2	-2	-2	0	-2	-1	-2	-3	-2
5	0	-2	0	+1	-1	-2	-2	-2	0	-1	+1	-4	-1	0	-2	-1
6	-2	-2	+1	+3	0	-1	-1	-2	+2	-1	+1	-4	-2	+1	-1	-1
7	-2	-2	0	+3	+2	-1	-1	-1	+2	-2	0	-4	-2	+1	0	-1
8	-2	-2	0	+5	+2	-1	-1	0	+3	-2	0	-4	-2	+2	0	0
9	+1	-1	+4	+7	+3	+2	+1	+3	+6	0	+2	-3	0	+4	+2	+2
10	+2	+1	+5	+9	+5	+5	+3	+5	+10	+2	+3	-1	+1	+7	+4	+4
11	+2	+2	+8	+16	+11	+15	+13	+17	+17	+5	+13	0	+1	+11	+14	+9
12	+5	+6	+14	+23	+21	+24	+25	+27	+26	+11	+2	0	+3	+18	+24	+15
13	+14	+12	+21	+22	+24	+26	+32	+27	+25	+17	+11	+9	+11	+21	+27	+20
14	+21	+14	+21	+12	+20	+15	+24	+20	+15	+16	+13	+17	+16	+16	+20	+17
15	+17	+9	+14	+1	+11	+6	+14	+11	+3	+11	+11	+17	+13	+7	+10	+10
16	-1	-1	+2	-6	+3	0	0	+4	-8	+5	+5	+11	+4	-2	+2	+1
17	-14	-5	-5	-12	-9	-4	-9	-4	-15	-1	-4	+2	-5	-8	-6	-7
18	-20	-6	-14	-18	-17	-9	-14	-13	-16	-5	-9	-3	-10	-13	-13	-12
19	-17	-6	-17	-21	-22	-13	-15	-19	-14	-10	-12	-6	-10	-16	-17	-14
20	-11	-5	-18	-21	-19	-15	-15	-20	-12	-11	-12	-8	-9	-15	-17	-14
21	-1	-3	-14	-12	-10	-12	-11	-15	-9	-9	-10	-6	-5	-11	-12	-9
22	-1	-4	-9	-5	-7	-9	-10	-9	-7	-9	-6	-4	-4	-7	-9	-7
23	0	-3	-7	-3	-3	-6	-8	-7	-6	-6	-2	-2	-2	-5	-6	-4
24	0	0	-5	-2	-5	-6	-7	-6	-7	-6	-2	-2	-1	-5	-6	-4

1916.

1	0	0	-1	-5	-6	-5	-4	-2	-3	.....	+1	+1	0	-3	-4	-2
2	0	+3	-1	-3	-6	-4	-4	-2	-2	.....	+5	+2	+2	-2	-4	-1
3	0	+2	0	-2	-4	-4	-4	-2	-3	.....	+3	0	+1	-2	-4	-1
4	-2	+1	-1	-1	-4	-4	-4	-2	-3	.....	0	-3	-1	-2	-3	-2
5	-2	0	0	0	-4	-2	-4	-2	-2	.....	+3	-2	0	-1	-3	-1
6	-3	-1	0	-1	-2	-3	-3	-2	-3	.....	-1	-3	-2	-1	-2	-2
7	-3	-2	-2	0	+1	-2	-2	-2	-3	.....	-2	-5	-3	-2	-1	-2
8	-4	-2	-2	0	-1	-1	-3	-2	-3	.....	-2	-5	-3	-2	-2	-2
9	-3	0	-2	0	+2	+1	+2	+3	0	.....	-1	-3	-2	-1	+2	0
10	-2	0	-1	+2	+7	+5	+4	+7	+8	.....	0	-2	-1	+3	+6	+3
11	0	0	-1	+5	+15	+17	+12	+23	+13	.....	-1	-1	0	+6	+17	+7
12	+1	+1	+3	+16	+28	+29	+25	+39	+22	.....	+2	+1	+1	+14	+30	+15
13	+16	+9	+17	+25	+31	+31	+30	+42	+24	.....	+15	+15	+14	+22	+34	+23
14	+32	+17	+28	+28	+21	+20	+22	+27	+18	.....	+23	+24	+24	+25	+23	+24
15	+30	+23	+30	+27	+9	+11	+13	+9	+8	.....	+19	+20	+23	+22	+11	+18
16	+14	+16	+19	+17	-1	+2	0	-6	-2	.....	+9	+6	+11	+11	-1	+7
17	-4	+5	+7	+3	-5	-7	-7	-17	-10	.....	-2	-5	-2	0	-9	-4
18	-17	-8	-8	-15	-12	-13	-12	-22	-14	.....	-14	-10	-12	-12	-15	-13
19	-21	-16	-18	-24	-17	-19	-16	-26	-16	.....	-18	-11	-17	-19	-19	-18
20	-16	-17	-20	-25	-17	-22	-18	-25	-13	.....	-15	-8	-14	-19	-21	-18
21	-6	-11	-18	-17	-12	-15	-13	-16	-6	.....	-11	-5	-8	-14	-14	-12
22	-5	-8	-14	-10	-6	-6	-7	-10	-5	.....	-6	-5	-6	-10	-7	-7
23	-2	-6	-9	-12	-8	-5	-4	-5	-4	.....	-4	-4	-4	-8	-5	-6
24	-4	-4	-6	-8	-8	-6	-4	-5	-5	.....	-2	-2	-3	-6	-6	-5

Diurnal variation of Z.

[International quiet days, Greenwich mean time.]

1915.

Hour	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Group means			Year
	I	I	II	II	III	III	III	III	II	II	I	I	I	II	III	
1	γ +6	γ +3	γ +5	γ -1	γ -1	γ -1	γ -1	γ +2	γ -2	γ +1	γ -2	γ +2	γ +2	γ +1	γ 0	γ +1
2	+4	+3	+4	-3	-2	0	0	+3	-2	+1	-1	+2	+2	+0	0	+1
3	+3	+2	+2	-2	+1	-1	-1	+2	-2	+2	0	+1	+2	0	0	+0
4	+3	+3	+3	-2	-3	+1	0	0	+1	+3	+3	+2	+3	+1	0	+1
5	+2	+2	+1	-2	-3	-1	-3	-2	0	+2	+2	+2	+2	+0	-2	+0
6	+1	+3	+1	-2	-2	-2	-4	-1	+2	+3	+4	+4	+3	+1	-2	+1
7	+1	+3	+3	+1	-1	-3	-3	-1	+3	+4	+3	+5	+3	+3	-2	+1
8	+3	+4	+6	+2	+1	0	-2	0	+5	+5	+4	+6	+4	+5	0	+3
9	+4	+5	+5	+2	0	-2	-3	+1	+4	+5	+4	+6	+5	+4	-1	+3
10	+4	+6	+6	+2	+1	-2	-3	+3	+4	+5	+3	+6	+5	+4	0	+3
11	+5	+5	+6	+1	+2	-1	-3	+4	+2	+4	+4	+6	+5	+3	0	+3
12	+6	+5	+4	-2	+2	-2	-5	0	-4	+1	+1	+6	+4	0	-1	+1
13	+2	0	-2	-4	-1	-4	-9	-4	-7	-4	-2	+1	0	-4	-5	-3
14	-4	-5	-5	-4	-3	-1	-6	-3	-7	-7	-3	+1	-4	-6	-3	-4
15	-11	-6	-10	-3	-1	0	-1	-2	-5	-7	-5	-8	-8	-6	-1	-5
16	-10	-7	-9	0	-1	+4	+5	-2	-4	-5	-4	-11	-8	-4	+1	-4
17	-8	-9	-10	0	-3	+4	+6	-3	-2	-5	-3	-11	-8	-4	+1	-4
18	-7	-10	-10	+1	+1	+1	+7	-2	+1	-6	-3	-9	-7	-4	+2	-3
19	-5	-8	-7	+4	+4	+3	+6	+1	+1	-5	-2	-6	-5	-2	+3	-1
20	-3	-6	+4	+6	+7	+4	+7	+2	+2	-2	-1	-3	-3	0	+5	+1
21	-4	-1	-1	+2	+3	+3	+3	-1	0	0	-1	0	-2	0	+2	0
22	-1	+2	+1	+2	+1	+2	+2	0	+3	+1	0	+2	+1	+2	+1	+2
23	+3	+3	+4	+3	+1	0	+2	+2	+4	+2	-1	+2	+2	+3	+1	+2
24	+4	+4	+7	+2	+1	0	+2	+4	+2	+2	-1	+3	+2	+3	+2	+2

1916.

1	+3	+3	0	0	-2	+2	0	+4	0	+4	-1	+2	+2	+1	+1	+1
2	+2	+2	+1	+1	-3	0	-2	+4	+1	+4	0	+0	+1	+2	0	+1
3	+2	+2	+1	+1	-2	0	-2	+3	0	+5	+1	+1	+2	+2	0	+1
4	+3	+3	+3	+1	-3	0	-1	+2	+1	+6	+3	+1	+2	+3	0	+2
5	+2	+2	+4	+3	-1	-2	-2	+2	+2	+5	+3	+2	+2	+4	-1	+2
6	+2	+2	+5	+2	0	-1	-2	0	+2	+5	+5	+5	+4	+4	-1	+2
7	+4	+2	+6	+2	0	-2	-1	0	+2	+4	+5	+6	+4	+4	-1	+2
8	+5	+4	+6	+2	+4	0	0	+2	+2	+4	+6	+8	+6	+4	+2	+4
9	+4	+4	+6	+2	+3	+1	0	+1	+3	+3	+5	+8	+5	+4	+1	+3
10	+4	+5	+5	+4	+1	+2	0	+3	+2	+3	+5	+8	+6	+4	+2	+4
11	+3	+5	+5	+3	+2	+2	+1	+3	+1	+3	+5	+6	+5	+3	+2	+3
12	+4	+7	+4	0	-2	-1	-3	-1	-4	-1	+4	+4	+5	0	-2	+1
13	0	+4	-2	0	-8	-2	-5	-5	-7	-6	-1	-1	0	-4	-5	-3
14	-7	0	-5	-1	-8	-2	-3	-4	-5	-8	-5	-8	-5	-5	-4	-5
15	-11	-4	-8	-2	-3	-2	0	-4	-5	-7	-7	-11	-8	-6	-2	-5
16	-9	-7	-9	-2	-1	0	+2	-3	-4	-6	-7	-12	-9	-5	0	-5
17	-7	-8	-7	-2	+2	-1	+3	-5	-2	-7	-9	-10	-8	-4	0	-4
18	-4	-9	-6	-1	+5	-3	+3	-5	0	-6	-8	-8	-7	-3	0	-3
19	-4	-8	-5	-1	+7	0	+5	-2	+2	-4	-4	-5	-5	-2	+2	-2
20	-3	-4	-2	-1	+6	+3	+4	+1	+2	-2	-1	-2	-2	-1	+4	0
21	-1	-5	-1	-4	+3	+2	+3	+1	+1	-1	-1	0	-2	0	+2	0
22	0	-2	0	-3	+1	+1	-1	0	+2	-1	0	+2	0	0	0	0
23	+4	0	0	-2	-1	+1	0	+1	+2	+1	0	+2	+2	0	0	+1
24	+5	+3	+1	-1	-1	+2	+1	+3	+2	+2	+1	+3	+3	+1	+1	+2

Summary of monthly means.

1915.

Month	D	H	I	X	Y	Z	F
	° ' ''	γ	° ' ''	γ	γ	γ	γ
January.....	−3 05.7	28341	50 40.0	28300	−1530	34584	44714
February.....	06.5	327	50 41.1	285	1536	591	710
March.....	07.1	325	50 40.8	283	1541	581	701
April.....	08.5	313	50 43.4	271	1552	622	725
May.....	08.9	294	50 45.7	251	1554	644	730
June.....	09.6	279	50 46.7	236	1559	647	723
July.....	10.2	268	50 47.1	225	1563	641	712
August.....	11.4	261	50 47.4	218	1573	640	706
September.....	11.9	257	50 47.8	213	1577	643	706
October.....	12.7	241	50 48.8	197	1582	643	696
November.....	13.9	219	50 50.7	174	1591	656	692
December.....	14.4	222	50 51.4	177	1595	673	706
Mean.....	−3 10.1	28279	50 45.9	28236	−1563	34630	44710

1916.

January.....	−3 14.9	28212	50 52.1	28166	−1599	34675	44702
February.....	15.8	210	52.1	164	1606	674	699
March.....	16.6	193	53.1	147	1611	674	689
April.....	17.6	189	53.3	142	1619	673	686
May.....	18.3	171	54.6	124	1624	676	677
June.....	18.7	171	54.6	124	1627	676	677
July.....	19.7	152	56.0	105	1634	682	669
August.....	20.4	142	56.7	094	1640	684	665
September.....	21.1	125	57.9	077	1644	687	657
October.....	21.6	123	58.0	074	1648	688	656
November.....	22.4	110	58.8	061	1654	688	648
December.....	23.2	104	59.2	055	1660	689	645
Mean.....	−3 19.2	28158	50 55.5	28111	−1630	34680	44672

Summary of annual means.

Year	D	H	I	X	Y	Z	F
	° ' ''	γ	° ' ''	γ	γ	γ	γ
1903.....	−1 23.2	29336	49 10.0	29327	− 709	33946	44865
1904.....	1 31.0	266	15.0	256	775	965	834
1905.....	1 38.3	221	17.0	209	835	952	795
1906.....	1 45.9	173	22.1	159	899	999	799
1907.....	1 53.7	106	29.3	090	962	34066	806
1908.....	2 02.5	29021	36.3	29003	1034	106	782
1909.....	2 11.7	28927	44.1	28905	1107	151	755
1910.....	2 20.6	834	49 52.0	810	1179	202	734
1911.....	2 29.9	739	50 00.4	712	1253	258	716
1912.....	2 39.0	638	09.0	607	1325	312	692
1913.....	2 49.6	522	21.2	487	1407	421	702
1914.....	3 00.4	401	33.9	362	1489	533	712
1915.....	3 10.1	279	45.9	236	1563	630	710
1916.....	−3 19.2	158	55.5	111	−1630	680	672

JANUARY, 1915.

3° WEST PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	5.1	5.1	5.6	5.9	5.2	5.0	5.5	6.7	5.3	3.4	4.3	5.6	5.0	6.8	6.5
2*†	5.7	5.9	6.0	6.0	5.6	5.2	5.0	4.9	3.9	2.6	2.0	4.7	7.2	8.5	7.8
3†	5.6	5.7	5.7	5.8	5.5	5.6	5.4	5.0	4.0	3.0	3.3	5.8	7.6	8.1	7.8
4	5.0	5.5	5.1	6.0	5.6	4.9	5.1	5.3	3.6	1.6	2.0	5.9	8.3	8.8	8.0
5	5.5	6.1	6.5	7.1	6.6	6.6	7.0	6.6	4.6	3.2	2.8	3.7	7.6	8.5	7.9
6	5.6	5.9	6.1	6.3	5.9	5.6	5.3	5.0	3.5	2.1	4.0	7.6	8.6	8.8	8.6
7	6.1	6.0	6.5	6.7	6.2	6.4	5.8	5.1	2.9	1.7	3.0	5.9	7.6	8.1	8.7
8	5.5	6.1	6.2	6.6	6.6	6.3	5.8	5.6	4.0	3.2	2.8	4.4	5.8	6.9	7.0
9	5.5	5.6	5.7	5.8	6.0	5.8	5.7	5.5	3.8	2.3	2.6	5.6	7.9	8.6	8.5
10*	5.2	5.6	5.8	6.5	6.1	6.0	5.9	5.8	3.8	1.9	1.7	3.6	5.0	5.8	6.0
11*	5.3	5.4	5.6	5.8	5.5	5.5	5.5	5.5	3.3	1.7	1.7	4.6	7.8	8.7	8.4
12	5.6	5.7	5.8	5.9	5.8	5.7	5.6	4.9	2.6	0.8	0.5	2.6	4.7	6.8	6.8
13	5.5	5.6	5.6	5.6	5.4	5.5	5.7	5.8	5.3	4.8	5.2	5.8	6.4	8.1	8.5
14	5.6	5.6	5.5	5.8	5.4	5.5	5.5	5.1	4.5	4.7	5.1	5.8	6.9	8.1	7.6
15	5.9	5.6	5.6	5.7	5.1	5.1	5.2	5.6	4.9	4.7	5.7	7.5	8.2	7.9	7.9
16*	5.8	5.9	6.0	6.6	5.9	5.8	5.6	4.9	3.6	3.6	4.1	6.0	7.6	8.1	7.8
17*	5.6	5.7	5.8	5.9	5.6	5.7	5.5	5.0	3.3	3.0	4.9	8.6	11.5	11.6	10.2
18*†	5.7	5.8	5.9	5.9	5.8	5.7	5.6	4.7	2.8	2.0	2.9	5.3	7.3	8.4	8.6
19*†	5.6	5.8	5.9	6.2	5.9	5.8	5.8	5.8	4.8	3.5	4.6	7.9	10.0	10.5	9.6
20*	5.5	5.8	6.0	6.0	5.9	5.7	5.6	5.0	3.0	2.6	3.6	6.3	8.6	10.0	10.2
21*	5.4	5.6	5.7	5.7	5.6	5.5	5.4	5.5	4.0	2.9	3.7	6.0	7.0	7.6	7.6
22	5.8	6.1	6.6	6.6	6.6	6.0	5.9	5.6	3.6	2.5	2.6	4.0	5.6	7.6	9.2
23*	5.8	5.9	6.2	6.6	6.0	5.9	6.0	6.6	4.4	3.0	3.0	4.8	6.9	6.9	6.8
24	5.8	5.8	6.0	6.0	5.8	5.8	5.8	5.3	3.7	2.7	2.9	5.2	7.0	7.8	8.0
25	5.5	5.8	5.8	6.7	6.0	5.8	5.7	6.7	4.9	3.9	4.9	6.5	7.5	7.9	7.6
26	6.0	6.3	5.7	5.8	5.5	5.4	5.5	5.7	5.3	4.4	4.6	5.9	8.0	9.1	9.6
27	6.3	6.1	6.5	6.5	6.0	5.8	5.0	5.6	4.7	4.7	5.9	6.8	6.9	6.8	6.8
28	5.9	5.9	6.2	6.6	6.0	6.0	6.0	5.7	4.7	4.0	4.8	6.5	6.8	7.6	8.7
29	6.0	6.0	6.5	6.4	6.6	5.8	6.1	6.6	5.9	5.6	5.8	6.6	7.0	6.6	6.0
30	6.1	6.0	6.6	6.6	5.6	5.8	5.7	5.8	5.6	5.8	6.9	7.2	7.6	8.0	7.6
31*†	6.5	6.6	6.6	6.3	5.9	5.9	5.8	5.7	5.1	5.1	5.6	5.7	5.5	5.7	5.7
Mean.....	5.7	5.8	6.0	6.2	5.8	5.7	5.6	5.6	4.2	3.3	3.8	5.8	7.3	8.0	7.9
Mean*.....	5.7	5.8	6.0	6.2	5.8	5.7	5.6	5.4	3.9	2.9	3.4	5.7	7.6	8.2	7.8
Mean†.....	5.8	6.0	6.0	6.0	5.7	5.6	5.5	5.2	4.1	3.2	3.7	5.9	7.5	8.2	7.9

FEBRUARY, 1915.

3° WEST PLUS TABULAR QUANTITIES.

1	6.6	6.6	6.6	6.5	5.8	5.8	5.8	6.0	5.2	5.1	5.9	7.6	7.7	7.0	6.1
2	6.2	5.8	6.0	5.9	5.9	6.1	6.2	5.7	4.8	5.3	4.9	6.9	7.1	6.8	6.5
3*	6.5	6.6	6.6	6.6	6.0	5.8	5.8	5.8	5.8	6.3	6.9	6.9	7.1	6.7	6.1
4	6.7	6.8	6.8	6.8	6.2	6.0	5.7	5.2	4.7	4.6	5.1	5.8	5.9	6.0	6.2
5	6.4	6.5	6.7	6.5	5.9	5.9	5.9	5.6	5.0	5.6	5.9	6.6	6.6	6.6	6.7
6	6.5	6.7	6.8	7.0	6.6	6.0	5.8	5.8	4.6	3.8	4.5	5.8	6.6	7.0	7.1
7*†	6.6	6.6	6.7	6.8	6.7	6.6	6.5	5.6	4.7	4.6	4.9	6.6	7.6	8.2	8.4
8	6.0	6.3	6.5	6.6	5.9	5.9	6.7	6.3	4.8	4.6	5.0	5.6	6.6	7.7	8.3
9	6.8	6.9	6.6	6.7	6.2	6.1	6.1	6.3	5.0	4.5	4.8	6.5	7.5	7.6	7.6
10	6.2	6.3	6.9	6.3	6.3	6.0	6.1	6.3	5.9	5.0	4.9	5.5	6.0	6.2	6.7
11*†	6.7	6.3	6.4	6.4	6.2	6.1	6.2	6.2	5.9	5.1	5.3	5.9	5.4	5.5	5.4
12	6.3	6.2	6.1	5.9	5.2	5.2	5.5	6.2	5.9	5.2	5.2	5.3	5.9	6.8	6.3
13	6.9	7.0	7.3	6.6	6.3	6.3	6.4	7.2	7.2	6.4	6.2	6.3	6.3	6.4	6.2
14*†	6.9	6.9	7.0	6.9	6.5	6.4	6.4	6.4	5.9	5.4	6.1	7.1	7.2	6.6	6.2
15*	7.0	7.0	7.0	7.1	6.9	5.6	6.0	6.2	5.9	5.6	6.2	7.3	8.0	8.2	8.2
16*†	6.9	6.9	6.9	7.0	6.9	6.3	6.2	5.6	4.0	3.9	4.9	6.1	6.9	7.3	7.6
17*†	6.7	7.0	7.0	7.0	6.8	6.4	6.0	5.3	4.3	4.3	5.1	6.9	7.9	8.2	8.2
18*	6.5	6.8	7.0	6.5	6.2	6.0	5.9	5.8	4.8	4.3	5.1	6.1	6.2	6.0	6.0
19	6.8	6.9	7.0	7.0	6.3	6.1	6.0	6.1	6.2	6.3	7.2	8.2	9.1	9.2	8.4
20	5.9	6.8	6.8	6.8	6.0	4.0	4.6	4.8	4.9	5.6	6.7	7.1	7.0	7.1	7.1
21	6.1	6.7	7.1	7.2	5.7	6.0	6.0	6.5	7.9	7.7	7.7	7.7	7.2	6.8	6.4
22	6.4	6.6	6.7	6.8	6.1	6.8	6.0	6.1	6.1	5.9	6.4	6.4	5.7	5.4	5.4
23	6.9	6.6	7.0	7.3	7.2	6.3	6.8	7.0	6.8	6.1	6.6	7.0	7.2	8.0	8.0
24	7.0	6.6	6.1	7.0	6.5	6.2	7.6	7.1	5.9	5.0	4.7	5.0	6.0	6.8	7.1
25	6.8	6.8	6.9	6.9	6.3	5.7	6.7	6.3	5.7	5.8	6.0	7.8	9.0	9.0	8.7
26	6.8	7.1	6.7	6.7	6.1	5.8	5.7	5.6	4.9	5.7	6.7	7.6	8.2	8.6	8.1
27*	6.8	6.8	6.7	6.9	6.8	5.9	5.8	5.8	5.4	5.3	7.0	6.2	6.1	6.0	6.0
28*	6.9	6.5	6.5	7.0	6.1	5.9	5.7	5.8	5.6	6.2	6.8	7.2	7.0	7.2	7.3
Mean.....	6.6	6.7	6.7	6.7	6.3	6.0	6.1	6.0	5.5	5.3	5.8	6.6	7.0	7.1	7.0
Mean*.....	6.8	6.7	6.8	6.8	6.5	6.1	6.0	5.8	5.2	5.1	5.8	6.6	6.9	7.0	6.9
Mean†.....	6.8	6.7	6.8	6.8	6.6	6.4	6.3	5.8	5.0	4.7	5.3	6.5	7.0	7.2	7.2

* Ten least disturbed days.

† Five international quiet days.

JANUARY, 1915.

3° WEST PLUS TABULAR QUANTITIES.

16h	17h	18h	19h	20h	21h	22h	23h	24h	Mean	Maximum			Minimum			Range	Day
										<i>h</i>	<i>m</i>	<i>'</i>	<i>h</i>	<i>m</i>	<i>'</i>	<i>'</i>	
5.8	5.5	5.6	5.5	5.0	5.0	5.1	5.6	5.7	5.4	12	36	6.9	9	43	2.9	4.0	1
6.7	5.8	5.7	5.6	5.5	4.9	5.0	5.1	5.5	5.4	13	39	8.6	10	26	1.7	6.9	2
6.9	5.8	5.7	5.6	5.4	4.8	4.9	5.0	5.4	5.6	13	32	8.2	10	08	2.6	5.6	3
6.7	5.2	4.9	5.0	5.0	4.7	4.7	4.7	5.5	5.3	13	14	9.0	9	51	0.7	8.3	4
6.7	5.6	4.8	4.8	4.8	3.7	4.6	5.0	5.8	5.7	13	18	8.7	10	53	2.2	6.5	5
7.2	5.7	5.0	5.0	5.1	4.6	4.0	5.0	5.2	5.7	13	27	8.8	9	46	1.5	7.3	6
7.9	5.7	5.0	5.1	5.0	4.8	4.7	4.9	5.2	5.6	14	24	8.8	10	00	1.0	7.8	7
6.1	5.1	4.8	4.9	5.0	4.9	4.9	5.0	5.6	5.4	14	31	7.0	10	09	2.4	4.6	8
7.5	6.0	5.7	5.6	5.5	5.0	5.0	5.0	5.5	5.7	14	00	8.7	10	00	1.6	7.1	9
5.8	5.0	4.9	5.5	5.4	5.0	4.9	5.2	5.5	5.1	3	40	6.5	10	21	1.2	5.3	10
7.7	6.1	6.0	5.7	5.7	5.2	5.3	5.5	5.6	5.5	13	50	8.7	10	00	1.1	7.6	11
6.6	5.6	5.5	5.9	5.6	5.0	5.0	5.3	5.6	5.0	13	40	7.1	10	00	-0.1	7.2	12
7.9	5.4	5.8	5.9	5.8	5.8	5.8	5.9	5.8	5.9	14	08	8.7	9	39	4.8	3.9	13
6.3	5.4	5.2	5.8	6.0	5.5	5.4	5.8	6.3	5.8	13	22	8.5	9	13	4.1	4.4	14
7.7	6.6	6.6	5.6	5.7	5.1	5.2	5.6	5.7	6.0	12	33	8.2	9	17	4.6	3.6	15
6.9	5.6	5.5	5.6	5.6	5.1	4.9	5.3	5.6	5.7	13	27	8.4	9	05	3.4	5.0	16
8.4	6.0	5.7	5.7	5.7	5.6	5.4	5.5	5.6	6.3	13	00	11.7	9	19	2.7	9.0	17
7.9	6.4	5.8	5.8	5.8	5.5	5.6	5.6	5.6	5.7	13	47	8.8	9	33	1.8	7.0	18
8.2	6.0	5.7	5.8	5.7	5.3	5.1	5.5	5.6	6.3	13	28	10.5	9	37	3.0	7.5	19
9.5	7.8	6.5	5.7	5.8	5.6	5.2	5.1	5.4	6.1	14	06	10.6	9	35	2.6	8.0	20
7.3	6.0	5.6	5.6	5.5	5.5	5.6	5.7	5.8	5.7	13	25	7.8	9	43	2.6	5.2	21
9.8	8.0	6.6	5.7	5.6	5.5	5.7	5.6	5.8	5.9	15	03	9.8	9	54	1.9	7.9	22
6.7	6.2	5.8	5.8	5.8	5.6	5.7	5.7	5.7	5.7	13	04	7.0	10	09	2.6	4.4	23
7.9	6.9	6.6	5.9	5.7	5.4	5.7	5.0	5.2	5.7	14	39	8.0	9	46	2.5	5.5	24
7.3	5.9	4.7	5.9	6.0	5.9	5.8	6.0	5.9	6.0	13	21	7.9	9	19	3.0	4.9	25
8.5	6.9	6.5	6.5	5.9	5.7	4.9	5.8	6.4	6.2	14	22	9.8	10	00	3.8	6.0	26
6.7	6.0	5.7	5.6	5.8	5.6	5.7	6.6	6.6	6.0	12	32	6.9	9	01	4.0	2.9	27
8.9	7.7	7.0	6.8	6.6	6.0	6.0	6.1	6.5	6.4	15	00	8.9	9	25	3.6	5.3	28
5.5	4.7	5.1	6.2	6.5	5.8	6.0	6.6	6.8	6.1	12	37	7.3	16	31	4.6	2.7	29
7.6	7.0	6.9	6.8	6.6	6.0	6.1	6.5	6.4	6.5	13	21	8.4	8	10	5.3	3.1	30
5.9	6.0	6.5	6.5	6.4	5.9	6.0	6.2	6.6	6.0	0	40	6.7	10	02	4.8	1.9	31
7.3	6.1	5.7	5.7	5.7	5.3	5.3	5.5	5.8	5.8							5.7	
7.2	5.9	5.7	5.8	5.7	5.4	5.4	5.5	5.7	5.7							6.0	
7.1	6.0	5.9	5.9	5.8	5.4	5.4	5.7	5.8	5.8								

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3° WEST PLUS TABULAR QUANTITIES.

5.9	6.3	6.7	6.7	6.2	6.0	6.0	6.3	6.6	6.3	12	20	7.7	9	24	4.8	2.9	1
5.7	5.6	6.7	6.8	6.6	6.0	6.1	6.2	6.6	6.1	12	34	7.2	8	05	4.4	2.8	2
5.8	5.8	6.6	6.6	6.1	5.9	5.9	5.8	6.6	6.3	12	33	7.1	6	35	5.5	1.6	3
6.3	6.3	6.7	6.6	6.4	5.3	5.6	6.2	6.7	6.0	2	00	6.9	9	03	4.5	2.4	4
6.7	6.7	7.0	6.9	6.8	6.2	6.3	6.5	6.2	6.3	17	40	7.0	8	38	4.9	2.1	5
7.1	6.9	7.0	6.5	6.7	6.6	6.6	6.6	6.7	6.3	16	00	7.5	11	00	3.5	4.0	6
8.4	7.6	7.5	7.0	6.8	6.6	6.4	6.6	6.5	6.7	15	00	8.5	9	00	4.4	4.1	7
8.6	7.9	7.6	7.0	5.7	6.5	6.7	6.8	6.9	6.5	14	52	8.7	9	10	3.9	4.8	8
8.1	8.2	8.0	6.9	7.1	6.9	6.3	6.4	6.4	6.6	17	00	8.2	9	25	4.1	4.1	9
7.0	7.6	7.2	7.1	6.9	6.9	6.4	6.4	6.7	6.4	17	00	7.8	10	06	4.9	2.9	10
5.5	6.1	6.9	7.0	7.0	6.4	6.4	6.3	6.3	6.1	18	39	7.0	9	42	5.0	2.0	11
6.2	6.3	7.0	6.3	7.0	6.5	6.4	6.4	6.9	6.1	14	00	7.2	10	13	5.0	2.2	12
6.4	6.2	6.4	6.3	6.4	6.3	6.2	6.4	6.9	6.5	2	32	7.7	10	13	6.0	1.7	13
5.6	6.3	6.9	6.9	6.5	6.4	6.5	6.7	6.9	6.5	12	32	7.2	9	11	5.2	2.0	14
8.2	7.9	7.4	6.4	6.3	6.2	6.3	6.5	7.0	6.8	14	30	8.2	6	00	5.3	2.9	15
8.1	7.3	7.1	6.9	6.3	6.3	6.2	6.4	6.8	6.4	15	30	8.1	9	05	3.9	4.2	16
7.6	7.2	7.1	6.4	6.3	6.2	6.1	6.3	6.6	6.5	13	42	8.3	9	16	4.0	4.3	17
5.5	5.9	6.1	7.0	6.4	6.4	6.3	6.4	6.7	6.1	2	37	7.3	9	23	4.3	3.0	18
8.0	8.6	8.3	6.8	6.9	6.7	6.3	6.1	6.7	7.1	13	30	9.3	19	00	3.7	5.6	19
7.1	7.1	7.6	7.2	7.2	6.9	6.7	6.2	6.1	6.4	17	29	7.7	7	30	4.0	3.7	20
6.7	6.9	7.1	7.2	6.9	6.7	6.6	6.2	6.6	6.8	8	50	8.1	4	20	5.0	3.1	21
6.0	6.7	7.7	7.8	7.0	6.8	6.6	6.6	6.8	6.4	17	47	8.1	14	23	5.0	3.1	22
6.9	6.7	7.0	7.1	6.9	6.2	6.1	6.1	7.8	6.9	23	34	8.9	6	30	5.9	3.0	23
6.9	6.9	6.7	7.1	6.8	6.4	6.4	6.8	7.0	6.5	6	20	7.7	10	41	4.1	3.6	24
8.2	7.0	6.8	7.1	6.9	6.8	6.7	6.9	6.5	7.0	12	55	9.2	9	00	5.0	4.2	25
7.9	7.6	7.1	6.7	6.4	6.7	6.6	6.7	7.2	6.8	12	57	8.8	8	04	4.4	4.4	26
6.1	6.0	6.3	7.1	7.1	6.3	6.1	6.6	7.0	6.3	4	04	7.1	9	00	5.2	1.9	27
7.3	6.8	7.0	6.2	7.2	6.9	6.9	6.9	6.6	6.6	14	11	7.3	7	29	5.4	1.9	28
6.9	6.9	7.1	6.8	6.7	6.4	6.3	6.4	6.7	6.5							3.2	
6.8	6.7	6.9	6.8	6.6	6.4	6.3	6.4	6.7	6.5							2.8	
7.0	6.9	7.1	6.8	6.6	6.5	6.3	6.5	6.8	6.5								

MARCH, 1915.

3° WEST PLUS TABULAR QUANTITIES.

Day	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	13h	14h	15h
1*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2*	6.7	7.0	6.9	6.7	6.3	6.2	6.1	6.0	6.1	6.3	6.5	7.1	7.2	7.3	7.5
3*	6.9	6.7	7.0	7.1	6.5	6.2	5.7	5.5	5.2	5.0	5.3	6.6	7.3	7.8	8.1
4*	7.1	7.1	7.1	7.1	6.4	6.2	6.0	5.5	5.1	5.4	6.0	7.4	8.2	8.5	9.1
5*	7.0	7.1	7.2	7.2	7.1	6.4	6.1	5.3	5.1	5.3	6.8	8.8	9.2	9.2	9.1
6	6.5	6.6	6.9	7.0	6.6	6.3	6.0	5.1	4.0	3.6	4.2	5.3	6.0	7.0	7.3
7	7.1	7.1	7.2	7.3	7.1	7.1	6.2	5.3	4.0	3.3	3.3	4.3	5.8	7.4	8.4
8	6.4	6.9	7.4	6.1	6.0	5.9	5.5	5.3	4.4	4.2	4.4	5.3	5.6	6.4	6.2
9	6.3	6.6	7.2	7.2	6.4	7.5	6.4	6.7	6.7	5.9	6.0	7.1	7.4	7.1	7.4
10	6.1	5.6	6.5	6.4	6.4	6.1	5.5	6.2	6.4	5.4	5.0	5.2	5.0	5.1	5.2
11	7.0	6.4	6.4	7.0	6.3	6.3	6.1	5.5	4.8	4.5	5.0	6.0	6.0	6.5	6.5
12	7.3	7.3	7.3	7.4	8.1	6.5	6.3	6.5	5.4	5.5	6.3	7.4	7.7	7.9	7.4
13*	7.2	7.3	7.1	7.3	6.5	6.4	6.1	5.7	5.0	5.0	5.4	6.4	7.3	8.0	8.4
14*	7.3	7.2	7.1	7.2	7.1	6.4	6.4	6.0	5.1	4.9	5.0	5.3	5.5	6.4	7.1
15*	7.3	7.3	7.3	7.2	7.1	6.6	6.5	5.5	3.2	3.0	4.3	6.5	7.4	8.6	9.4
16	7.3	7.2	7.2	7.3	7.1	6.6	6.4	5.4	4.1	4.1	5.0	6.1	7.1	8.4	9.3
17	7.1	7.2	7.3	7.3	7.1	6.9	6.5	6.3	5.4	6.0	7.0	8.1	8.5	9.2	10.2
18	7.4	7.4	7.4	7.4	7.2	7.0	6.8	6.0	5.5	5.4	5.1	5.8	6.9	8.2	9.4
19	7.4	7.4	7.4	7.5	7.2	7.2	6.5	6.0	4.3	4.5	4.4	5.3	6.5	8.6	9.4
20	7.0	7.1	7.2	7.4	7.2	7.1	7.1	6.8	6.1	5.3	5.4	6.7	7.1	8.0	8.6
21	6.8	7.3	7.4	7.3	7.1	7.1	7.1	6.1	5.3	6.0	5.5	6.4	7.6	8.6	9.1
22	7.4	7.2	7.3	6.4	5.8	6.6	6.7	6.0	6.0	6.4	5.9	6.3	7.3	8.4	9.7
23	6.5	6.0	7.2	7.0	6.3	6.4	6.5	6.6	6.0	6.4	7.1	7.3	7.3	8.1	9.0
24	7.4	7.3	7.3	7.2	6.6	7.3	8.1	6.9	5.4	5.3	5.1	5.7	6.0	6.9	8.3
25	7.5	7.4	7.2	7.1	7.0	7.3	7.3	7.3	6.3	6.0	7.1	8.2	9.0	9.3	10.1
26	7.0	7.4	7.4	7.6	7.2	7.4	7.5	7.4	7.4	7.5	8.1	8.2	7.6	8.1	9.1
27*	7.2	7.2	7.5	7.6	7.4	7.8	7.3	6.7	7.1	6.9	7.2	7.3	7.2	8.3	9.3
28*	7.3	7.4	7.4	7.1	7.1	6.4	6.4	6.4	6.4	7.0	7.3	7.4	7.4	8.3	9.1
29	7.2	7.1	7.3	7.2	6.5	6.9	6.0	5.5	5.0	5.4	6.1	7.1	8.3	10.2	13.5
30	7.7	7.5	7.5	7.5	7.3	7.1	7.1	6.4	6.1	6.5	7.4	8.5	9.5	10.5	11.1
31*	7.3	7.5	8.0	7.2	7.2	7.6	6.3	5.2	4.8	5.3	6.4	8.5	9.0	10.9	11.1
Mean.....	8.2	8.1	7.9	8.1	7.3	6.7	6.4	5.5	5.7	7.1	8.1	9.0	9.3	10.0	10.4
Mean*.....	7.1	7.1	7.2	7.2	6.9	6.8	6.5	6.0	5.4	5.4	5.9	6.8	7.3	8.2	8.7
Mean†.....	7.2	7.2	7.2	7.2	6.9	6.4	6.2	5.6	5.0	5.2	5.8	7.0	7.5	8.2	8.6
Mean‡.....	7.2	7.1	7.2	7.2	6.7	6.5	6.1	5.5	4.5	4.6	5.3	6.7	7.7	8.7	9.3

APRIL, 1915.

3° WEST PLUS TABULAR QUANTITIES.

Day	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	13h	14h	15h
1	7.7	7.7	7.4	7.5	7.2	7.3	6.8	5.6	5.0	5.3	6.0	7.4	9.2	11.3	12.1
2	7.6	7.6	7.8	7.4	7.2	7.4	7.2	5.4	4.8	5.2	5.2	7.1	9.5	12.4	12.5
3	8.2	7.5	7.3	7.3	6.7	7.1	7.0	6.3	6.0	5.2	5.0	5.6	8.7	12.1	12.4
4	8.1	8.2	8.1	8.0	7.5	7.4	7.1	6.3	5.9	5.4	5.5	6.4	7.5	10.0	11.1
5*	7.9	7.5	7.6	7.4	7.3	7.2	7.2	6.2	5.2	5.2	6.1	6.2	6.4	8.4	10.4
6	7.8	7.7	7.9	7.8	7.4	7.3	7.1	6.4	5.7	5.5	6.1	6.3	7.0	7.3	9.3
7	8.0	7.5	7.5	7.5	7.3	7.4	7.0	5.7	6.1	7.1	8.0	8.0	9.3	9.7	10.8
8	8.2	7.8	7.4	7.3	7.2	7.3	7.4	7.8	9.2	10.9	9.3	9.1	9.5	10.4	11.1
9	8.1	7.8	7.6	7.6	7.4	7.3	6.3	5.4	6.1	8.2	8.4	8.6	9.2	10.5	11.1
10†	8.1	7.8	7.6	7.4	7.3	7.2	6.5	5.9	5.5	6.3	7.2	7.5	8.2	9.3	10.4
11*	8.0	8.0	7.6	7.5	7.3	7.3	6.6	6.1	6.3	7.2	8.0	8.3	9.0	10.1	10.4
12*	8.2	8.1	8.0	7.6	7.3	7.3	6.5	5.5	5.5	6.3	7.3	8.5	9.1	9.5	9.7
13*	8.4	8.2	8.3	8.1	7.6	7.3	6.4	5.0	4.9	6.5	9.0	10.1	11.1	11.6	11.3
14*	8.3	8.2	7.8	7.6	7.3	7.2	6.5	5.4	6.4	8.0	9.1	9.5	10.5	11.5	11.5
15	8.2	8.1	8.0	8.1	7.3	7.3	6.6	4.8	4.4	5.8	7.3	8.5	10.3	12.1	12.7
16	8.3	8.2	7.7	7.8	7.8	7.5	6.8	5.2	5.2	6.6	8.1	8.5	10.1	11.5	12.3
17	8.2	8.3	8.4	8.4	8.1	8.1	7.3	6.3	7.0	8.2	8.4	8.5	9.8	10.7	11.1
18	8.3	7.6	8.2	9.1	6.3	6.7	5.9	4.3	5.0	6.8	8.4	10.1	11.3	12.0	11.6
19	7.9	6.5	7.3	7.1	6.4	6.0	5.3	4.5	4.5	5.9	6.9	7.8	9.0	10.8	12.1
20	7.4	7.3	7.3	7.0	6.8	8.0	7.1	6.3	6.1	6.5	7.1	8.1	9.0	9.6	10.8
21	8.1	8.1	8.1	8.2	7.3	7.5	7.5	7.2	6.3	5.9	5.4	5.9	6.4	8.1	10.2
22	8.5	8.4	8.3	8.2	8.1	7.6	7.6	8.3	8.6	8.6	7.7	8.2	9.0	10.5	11.5
23	8.8	8.3	8.1	8.1	7.6	7.3	7.3	8.1	8.8	9.1	8.3	7.4	7.5	8.3	9.3
24*	8.4	8.2	8.3	8.3	7.7	7.6	7.1	6.5	7.1	7.8	8.2	8.5	8.9	8.7	9.3
25*	8.8	8.3	8.4	7.6	7.3	6.2	5.4	5.4	6.6	8.2	9.1	10.2	10.4	10.9	11.4
26	7.9	7.5	7.6	8.3	6.0	7.9	7.7	6.2	6.3	7.3	9.0	9.6	10.8	11.4	12.5
27*	8.5	8.3	8.2	8.2	7.6	7.8	6.4	6.3	7.1	7.6	8.4	8.8	9.0	10.3	10.5
28*	8.5	8.5	8.3	8.3	8.0	7.5	6.3	5.2	6.4	8.2	9.3	10.3	11.3	12.4	12.5
29*	8.6	8.3	8.4	8.3	8.1	7.3	6.1	4.1	3.2	4.4	7.1	8.5	10.8	12.3	12.8
30	8.6	9.0	8.5	8.6	8.7	8.3	7.1	5.2	5.9	7.1	7.3	8.3	11.2	12.5	13.9
Mean.....	8.2	8.0	7.9	7.9	7.4	7.4	6.8	5.9	6.0	6.9	7.5	8.2	9.3	10.5	11.3
Mean*.....	8.4	8.2	8.1	7.9	7.6	7.3	6.4	5.6	5.9	6.9	8.2	8.9	9.6	10.6	11.0
Mean†.....	8.2	8.1	8.0	7.8	7.5	7.3	6.5	5.5	5.7	6.9	8.2	8.9	9.7	10.6	10.9

*Ten least disturbed days.

†Five international quiet days.

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3° WEST PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
/	/	/	/	/	/	/	/	/	/	<i>h</i>	<i>m</i>	/	<i>h</i>	<i>m</i>	/	/	
7.7	7.2	7.1	7.3	7.2	7.0	6.6	7.0	7.0	6.8	15	18	7.7	8	00	5.4	2.3	1
8.1	8.0	8.3	8.3	7.7	7.1	7.1	7.1	7.1	6.9	18	00	8.4	9	47	5.0	3.4	2
9.4	8.9	8.2	8.1	7.5	7.0	6.7	7.0	7.2	7.2	15	36	9.4	8	25	5.0	4.4	3
9.1	8.5	8.2	7.6	7.4	7.1	6.5	6.4	6.7	7.3	13	26	9.4	7	35	5.0	4.4	4
7.9	8.1	8.1	8.0	7.5	7.1	6.8	6.9	7.1	6.5	17	15	8.1	9	11	3.5	4.6	5
8.5	8.9	8.7	7.8	7.3	7.0	6.6	6.6	6.1	6.6	17	13	9.0	10	00	3.2	5.8	6
7.2	7.6	9.1	9.0	6.6	7.2	6.5	5.4	6.0	6.3	18	00	9.2	9	07	4.1	5.1	7
8.2	9.1	9.1	7.7	7.5	7.0	7.2	6.6	6.4	7.1	16	59	9.2	9	50	5.4	3.8	8
5.6	6.9	8.0	8.2	8.4	8.2	7.7	7.5	7.1	6.4	19	34	8.4	10	20	4.6	3.8	9
7.1	7.2	8.1	8.0	8.1	7.5	7.3	7.5	7.4	6.6	17	47	8.1	9	16	4.3	3.8	10
7.4	7.1	7.3	7.5	7.6	7.4	7.3	6.6	7.1	7.1	4	20	8.3	8	49	5.1	3.2	11
8.3	7.5	7.6	8.0	7.9	7.4	7.2	7.3	7.4	7.0	14	54	8.5	8	50	4.5	4.0	12
7.3	7.4	7.6	7.9	7.9	7.6	7.4	7.4	7.5	6.8	19	30	7.9	10	13	4.6	3.3	13
10.0	9.1	7.9	7.3	7.3	7.3	7.2	7.3	7.3	7.0	15	46	10.0	9	00	2.8	7.2	14
9.3	8.8	8.4	8.1	7.7	7.4	7.3	7.1	6.4	7.0	14	34	9.3	8	26	3.8	5.5	15
10.2	(9.3)	8.2	8.0	6.9	5.1	6.6	6.5	7.0	7.4	15	00	10.3	20	15	4.4	5.9	16
10.1	9.8	9.0	8.0	7.6	7.4	7.3	7.1	7.2	7.4	15	31	10.2	10	26	5.0	5.2	17
9.5	9.1	8.5	8.4	8.1	7.5	7.5	6.3	6.0	7.1	15	43	9.5	8	46	4.0	5.5	18
9.2	8.7	8.3	7.3	7.3	7.0	7.1	7.1	7.2	7.2	15	55	9.2	10	04	4.7	4.5	19
9.3	9.8	9.0	8.4	8.3	8.2	7.7	7.4	7.4	7.5	16	35	10.2	8	36	4.4	5.8	20
10.1	9.6	8.7	9.2	8.8	7.2	7.2	6.9	8.5	7.5	15	05	10.3	20	45	4.1	6.2	21
9.2	9.3	9.3	8.3	7.3	7.5	7.6	7.8	7.9	7.4	17	24	9.4	1	46	5.1	4.3	22
9.2	9.4	9.1	7.3	7.4	7.2	7.5	7.7	8.0	7.2	16	30	9.4	9	41	5.0	4.4	23
10.3	9.9	9.1	9.0	8.4	8.1	7.6	7.4	7.1	8.0	15	41	10.3	9	43	5.9	4.4	24
9.5	9.5	9.2	8.7	7.7	6.1	5.9	7.0	7.1	7.7	15	39	9.6	21	02	5.5	4.1	25
9.5	9.1	9.0	8.4	8.2	7.6	7.4	7.3	7.7	7.8	15	38	9.6	7	15	6.2	3.4	26
9.6	9.9	9.4	9.0	8.4	8.2	7.4	7.6	7.6	7.7	16	27	9.9	7	46	6.0	3.9	27
10.2	9.3	8.5	8.4	8.4	8.2	7.5	8.0	8.0	7.6	14	29	10.8	8	16	4.8	6.0	28
11.0	9.6	8.5	8.5	8.3	8.2	8.2	8.1	7.6	8.2	15	04	11.2	7	43	5.8	5.4	29
10.3	9.5	8.4	8.2	8.2	8.2	7.9	8.1	8.3	7.9	13	27	11.2	7	25	4.3	6.9	30
10.3	9.5	8.7	8.3	8.3	7.8	8.0	8.1	8.3	8.1	15	15	10.5	7	48	5.0	5.5	31.
9.0	8.8	8.5	8.1	7.8	7.4	7.2	7.2	7.2	7.2							4.7	
8.9	8.5	8.2	8.0	7.7	7.4	7.1	7.2	7.2	7.1							4.4	
9.4	8.8	8.3	8.0	7.7	7.4	7.1	7.3	7.3	7.2								

3° WEST PLUS TABULAR QUANTITIES.

12.3	11.3	9.6	8.6	8.4	8.2	8.1	7.6	8.0	8.2	15	24	12.4	8	37	4.8	7.6	1
12.0	10.9	10.1	9.8	9.3	8.6	8.1	8.3	8.2	8.3	14	02	12.9	8	09	3.8	9.1	2
12.3	11.2	9.6	8.7	8.1	8.2	7.6	8.0	8.1	8.1	14	27	12.5	11	00	4.5	8.0	3
11.1	10.3	9.2	8.5	8.3	8.2	8.2	8.1	8.1	8.0	15	54	11.1	9	07	5.2	5.9	4
11.0	10.6	10.1	9.3	9.0	8.5	8.3	8.1	8.0	7.9	15	57	11.1	9	04	5.0	6.1	5
10.2	9.7	9.1	8.9	8.7	8.5	8.3	8.1	8.2	7.8	15	40	10.2	9	34	5.0	5.2	6
11.7	12.2	11.1	10.3	8.9	7.4	7.1	7.5	8.0	8.4	16	31	12.4	7	36	5.2	7.2	7
11.5	10.9	9.5	9.0	9.0	8.4	8.2	8.2	8.2	8.9	15	16	11.8	4	06	7.0	4.8	8
11.0	9.6	8.8	8.4	8.4	8.3	8.2	8.2	8.2	8.3	14	30	11.2	7	48	4.9	6.3	9
10.9	10.2	9.2	8.8	8.4	8.3	8.3	8.2	8.2	8.0	15	48	11.0	7	46	5.2	5.8	10
11.5	10.4	9.6	9.1	8.9	8.5	8.5	8.4	8.4	8.4	15	45	12.1	7	21	5.3	6.8	11
9.4	9.1	8.6	8.6	8.4	8.4	8.4	8.4	8.4	8.0	14	39	9.7	7	54	5.2	4.5	12
10.8	9.3	8.2	8.4	8.4	8.3	8.3	8.4	8.4	8.4	13	57	12.0	6	45	4.2	7.8	13
11.1	9.3	8.3	8.1	8.1	8.1	8.1	8.1	8.3	8.4	14	35	11.6	7	39	5.1	6.5	14
12.3	11.4	10.0	8.6	8.4	8.2	8.3	8.3	8.4	8.5	14	52	13.1	7	49	3.9	9.2	15
11.5	(9.7)	8.3	8.0	7.6	7.6	7.1	7.8	7.7	8.2	14	46	12.4	7	49	4.5	7.9	16
10.9	9.6	9.3	9.0	9.0	8.5	8.4	8.5	8.4	8.7	14	20	11.3	7	37	5.8	5.5	17
11.4	11.1	10.3	9.9	9.2	8.5	7.8	7.4	8.0	8.6	13	44	12.1	7	33	3.6	8.5	18
12.3	12.6	12.1	11.1	9.5	9.1	8.2	9.1	7.5	8.3	17	05	12.6	7	07	4.0	8.6	19
12.1	10.4	9.6	9.5	9.2	9.0	9.0	8.1	8.2	8.3	14	54	12.3	7	08	5.8	6.5	20
11.4	10.2	9.5	9.4	10.1	8.4	9.4	9.1	8.8	8.2	15	22	11.5	10	47	5.1	6.4	21
12.1	12.0	10.3	9.8	8.3	8.5	8.6	9.0	9.0	9.0	16	02	12.7	6	19	7.1	5.6	22
10.3	10.2	9.5	9.4	9.1	9.0	8.5	8.5	8.6	8.6	16	00	10.4	7	05	7.0	3.4	23
10.2	10.0	9.4	9.4	9.2	8.7	9.0	8.9	8.9	8.5	15	54	10.3	7	15	6.2	4.1	24
11.5	11.1	10.4	10.0	9.4	9.1	9.0	8.5	8.5	8.8	15	44	11.7	7	45	5.2	6.5	25
11.6	10.5	10.2	10.1	9.5	9.1	8.8	8.6	8.8	8.9	14	41	12.9	4	44	5.0	7.9	26
10.3	9.1	9.1	9.0	9.2	9.1	9.0	8.9	9.0	8.6	14	30	10.5	7	16	5.3	5.2	27
12.3	10.5	9.3	9.1	9.2	9.2	8.8	8.6	8.9	9.0	15	03	12.5	7	33	4.4	8.1	28
12.4	10.6	9.3	8.5	8.8	9.0	9.1	9.1	9.1	8.5	15	00	12.8	8	07	2.9	9.9	29
13.5	12.3	10.5	10.0	10.1	9.7	9.4	9.1	9.2	9.3	14	57	14.0	7	41	5.0	9.0	30
11.4	10.5	9.6	9.2	8.9	8.6	8.4	8.4	8.4	8.4							6.8	
11.0	10.0	9.2	9.0	8.9	8.7	8.6	8.5	8.6	8.5							6.6	
11.0	9.9	9.0	8.8	8.7	8.5	8.5	8.4	8.4	8.4								

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3° WEST PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	8.2	8.2	8.3	8.2	8.1	8.0	7.8	6.4	5.3	6.0	7.0	8.5	10.0	13.1	14.1
2	7.6	8.1	7.6	7.4	8.0	7.2	6.3	5.4	4.2	4.9	7.0	8.5	11.0	12.3	13.3
3	9.1	9.3	10.3	10.1	10.1	9.1	7.9	6.1	4.1	3.1	4.1	6.6	10.1	12.9	13.5
4	8.3	8.9	8.4	8.2	8.2	8.1	7.3	7.2	6.6	6.1	6.0	7.7	9.1	9.3	10.3
5	8.6	8.4	8.7	8.6	8.9	9.1	8.0	7.5	7.1	6.7	7.4	7.3	8.0	9.1	9.5
6*	8.7	8.6	8.8	8.8	9.0	8.6	7.1	6.2	6.1	6.7	7.4	8.8	9.2	9.8	10.2
7*†	8.8	8.8	8.8	8.8	8.5	8.1	7.2	6.2	6.4	6.8	7.2	8.0	9.0	10.7	11.7
8*†	8.9	8.8	8.8	8.8	8.8	8.3	7.2	5.4	4.9	5.3	6.7	7.2	8.9	10.8	11.3
9	8.9	8.9	8.8	8.8	8.2	8.2	7.2	5.6	4.7	5.7	8.0	9.8	10.8	11.9	12.0
10*	8.4	8.2	8.5	8.8	9.2	8.9	7.8	6.2	5.2	5.8	7.2	9.0	10.1	11.8	12.4
11*†	8.9	8.8	8.7	8.8	8.3	8.3	7.8	6.9	6.0	6.3	7.0	8.9	10.8	11.0	10.8
12	8.2	8.3	8.1	8.4	8.1	8.2	7.0	5.9	5.7	6.8	8.7	9.6	10.2	10.4	10.7
13	8.8	8.7	8.5	8.4	7.9	7.3	6.5	4.9	4.6	4.9	6.7	6.8	9.0	10.0	10.7
14	8.8	8.9	8.9	8.8	8.5	7.9	6.3	4.6	3.5	4.4	6.8	8.9	9.9	11.4	12.5
15	9.5	9.6	9.6	9.4	8.9	9.3	8.5	6.4	6.4	7.4	9.3	9.0	9.9	11.7	13.2
16	9.4	9.2	8.9	8.7	8.8	8.7	7.5	6.2	5.4	6.4	6.8	8.3	9.4	11.3	13.4
17	8.3	8.5	9.4	8.3	8.3	8.1	7.2	5.8	5.7	6.3	7.5	8.0	9.3	11.0	11.7
18*	9.0	8.6	8.9	8.8	8.5	8.6	7.4	6.5	6.2	7.0	8.4	8.5	8.8	9.6	10.0
19	9.3	8.7	8.5	8.5	8.4	8.3	7.4	7.2	7.4	8.4	9.2	9.7	10.2	11.2	12.0
20	8.9	9.3	8.5	9.4	8.7	8.4	7.2	7.3	7.6	9.1	9.5	9.8	10.0	10.4	11.3
21	9.3	8.8	8.7	8.5	8.3	8.3	7.5	6.7	7.2	8.7	9.7	10.5	10.7	11.1	11.5
22	9.4	10.1	9.6	8.7	7.5	6.7	5.7	4.9	4.3	5.1	6.7	8.3	9.5	10.4	11.3
23*	9.1	8.9	8.7	8.5	8.5	8.4	6.5	5.5	5.7	7.5	9.3	9.7	10.4	11.3	11.7
24	8.9	8.7	8.7	8.5	8.5	8.4	7.6	7.7	8.4	8.8	9.4	9.9	10.9	11.5	11.7
25	9.2	8.9	8.9	8.6	8.3	7.5	5.9	5.0	6.3	8.3	10.5	11.5	11.7	12.6	12.7
26	9.2	8.8	8.6	8.5	8.5	8.3	6.7	5.6	5.2	6.5	8.1	9.3	9.5	9.9	10.3
27	8.4	8.6	9.7	9.4	8.6	8.8	6.2	4.4	4.4	6.2	8.4	10.3	10.7	11.1	10.7
28*†	9.4	9.3	8.8	8.7	8.6	8.4	8.3	7.1	6.2	6.1	8.2	8.5	9.5	9.9	10.5
29*†	9.3	9.2	8.7	8.7	8.5	8.4	7.3	6.3	6.3	7.1	8.3	9.8	10.7	11.9	12.5
30*	9.4	9.4	9.2	9.3	8.8	9.1	8.3	7.3	6.2	6.7	8.4	9.7	10.5	11.1	11.7
31	9.3	9.4	9.4	9.3	9.0	8.5	7.9	6.6	5.3	4.5	5.6	6.7	8.5	10.0	11.4
Mean.....	8.9	8.9	8.8	8.7	8.5	8.3	7.2	6.2	5.8	6.4	7.8	8.8	9.9	11.0	11.6
Mean*.....	9.0	8.9	8.8	8.8	8.7	8.5	7.5	6.4	5.9	6.5	7.8	8.8	9.8	10.8	11.3
Mean†.....	9.1	9.0	8.8	8.8	8.5	8.3	7.6	6.4	6.0	6.3	7.5	8.5	9.8	10.9	11.4

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3° WEST PLUS TABULAR QUANTITIES.

1*	9.9	9.8	9.8	9.9	9.7	9.2	8.3	7.4	6.0	6.8	7.9	8.9	9.8	10.3	11.0
2*	9.3	10.0	10.3	9.9	9.3	9.1	8.8	7.6	6.1	6.5	7.1	7.9	7.9	8.0	9.1
3*†	9.8	9.8	9.8	9.7	9.2	9.0	7.8	6.9	6.2	7.5	9.1	9.9	10.0	10.9	11.3
4*†	9.6	9.6	9.8	9.8	9.2	9.0	8.2	7.1	6.9	8.2	9.1	9.0	9.0	9.8	10.5
5*	9.7	9.7	9.5	9.5	9.3	9.1	8.1	7.0	7.0	7.9	8.3	9.0	9.1	9.1	10.1
6	9.9	9.8	9.3	9.3	9.0	8.7	7.3	6.8	6.9	8.9	10.7	12.0	12.9	13.0	12.4
7	9.9	9.6	9.3	9.2	8.9	8.6	8.1	7.9	8.1	9.2	9.9	10.7	11.3	11.9	11.9
8	9.8	9.8	9.9	9.2	7.6	7.7	7.0	5.9	5.0	5.4	7.1	9.0	9.8	11.1	12.1
9	9.0	9.1	9.1	9.0	8.9	8.9	7.9	6.9	7.1	7.6	8.1	8.2	8.6	8.9	9.3
10*†	10.0	9.4	9.2	9.2	9.0	8.3	6.4	5.1	5.3	7.5	8.9	10.0	10.9	11.3	11.8
11	10.1	10.0	9.9	9.8	9.1	8.3	6.8	5.4	5.7	7.3	8.6	9.6	9.8	9.9	10.0
12	9.8	9.8	9.8	11.0	11.1	8.8	6.3	4.9	5.0	7.1	9.6	11.0	12.1	12.1	12.1
13	8.9	8.2	8.9	8.1	8.0	7.1	7.1	7.1	7.1	7.9	9.2	10.5	10.9	11.5	12.7
14	9.2	9.8	10.0	9.5	9.0	8.4	7.3	7.0	6.5	7.9	8.9	9.9	10.4	11.5	12.3
15*	9.7	9.8	9.8	9.9	9.7	9.3	8.8	7.6	6.9	7.2	7.7	8.8	10.3	11.9	12.9
16	9.9	9.8	9.7	9.9	9.3	9.0	8.8	7.2	5.2	4.4	5.4	7.9	10.3	12.0	13.8
17	8.0	9.1	9.8	7.9	8.0	10.1	5.1	8.4	6.2	5.1	7.3	8.8	10.8	12.5	12.1
18	9.2	8.9	9.9	9.9	9.1	8.3	7.2	5.1	4.1	4.2	5.0	7.3	9.0	10.7	12.3
19*	10.3	10.3	10.1	10.1	10.1	10.0	8.9	7.2	6.1	6.9	7.1	7.9	8.4	9.2	10.6
20*†	9.9	9.8	10.1	10.1	9.9	9.5	9.0	7.9	8.4	8.9	8.9	9.8	10.2	11.1	11.2
21	(9.9)	(9.8)	(9.8)	(9.7)	(9.5)	(9.2)	(8.0)	(6.7)	7.1	8.8	9.4	9.9	11.0	11.8	12.2
22	8.5	8.3	9.2	7.3	8.0	7.9	8.9	7.2	6.9	7.6	7.9	8.2	8.9	10.3	12.1
23	10.1	11.9	11.1	10.0	9.0	9.4	7.2	6.4	7.2	9.2	10.9	11.2	11.2	11.9	12.2
24	10.2	10.0	10.0	10.0	9.9	9.2	7.9	6.6	6.3	7.9	9.0	10.4	11.3	12.0	12.1
25	10.0	9.9	9.9	10.9	10.0	9.2	7.3	6.1	6.4	8.1	8.6	8.4	9.9	10.4	11.2
26	10.3	10.2	10.2	10.1	9.5	8.8	7.3	5.8	5.0	7.1	9.3	11.1	12.1	13.1	13.8
27	10.8	10.3	10.3	10.3	9.9	9.1	7.1	5.0	3.9	5.6	7.9	10.6	12.1	12.9	12.9
28	10.1	10.3	10.4	10.2	9.9	9.3	8.0	6.9	6.9	7.6	8.2	9.9	11.8	11.2	11.1
29	9.8	10.8	11.0	11.0	10.0	9.0	7.9	7.0	6.6	7.4	8.2	9.4	10.9	11.2	11.9
30*†	10.6	10.4	10.2	10.1	10.1	9.9	8.2	6.8	6.1	6.9	7.9	9.1	10.1	10.4	11.1
Mean.....	9.7	9.8	9.9	9.7	9.3	8.9	7.7	6.7	6.3	7.3	8.4	9.5	10.4	11.1	11.7
Mean*.....	9.9	9.9	9.9	9.9	9.6	9.2	8.2	7.1	6.5	7.4	8.2	9.0	9.6	10.2	11.0
Mean†.....	10.0	9.8	9.8	9.8	9.5	9.1	7.9	6.8	6.6	7.8	8.8	9.6	10.0	10.7	11.2

* Ten least disturbed days.

† Five international quiet days.

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3° WEST PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
/	/	/	/	/	/	/	/	/	/	<i>h</i>	<i>m</i>	/	<i>h</i>	<i>m</i>	/	/	
13.6	12.9	11.0	9.4	9.6	9.4	9.3	8.4	8.4	9.1	14	48	14.5	8	41	5.2	9.3	1
12.4	11.0	9.4	9.2	9.4	9.2	9.2	9.2	9.2	8.6	14	59	13.3	8	21	3.4	9.9	2
13.5	11.3	9.4	9.2	8.8	8.2	7.9	8.2	8.3	8.8	15	04	13.6	9	30	2.6	11.0	3
10.3	9.8	9.4	9.5	9.8	9.3	8.4	8.4	8.8	8.5	15	00	10.3	10	32	5.4	4.9	4
10.3	9.9	9.5	8.9	8.8	8.8	8.8	8.8	8.8	8.6	16	05	10.3	9	17	6.5	3.8	5
10.8	10.2	10.0	9.8	9.7	9.2	9.0	8.9	8.9	8.8	15	25	10.8	8	04	6.0	4.8	6
11.2	10.0	9.7	9.2	9.6	9.3	9.1	9.0	9.0	8.8	14	33	11.7	7	33	5.9	5.8	7
11.1	9.8	8.9	8.8	9.0	9.0	8.8	8.9	8.9	8.5	14	19	11.7	7	57	4.3	7.4	8
11.1	9.6	8.8	9.2	9.3	9.1	9.0	9.0	9.0	8.8	14	42	12.0	8	12	4.7	7.3	9
11.9	10.2	9.0	8.9	9.2	9.3	9.2	9.1	9.0	8.9	14	34	12.5	8	26	5.0	7.5	10
10.2	9.1	8.6	8.4	8.9	8.7	8.7	8.7	8.3	8.6	14	00	11.0	8	27	5.9	5.1	11
10.0	8.4	7.7	8.2	9.1	8.9	8.9	8.9	8.9	8.5	14	00	10.8	8	00	5.3	5.5	12
9.8	8.9	8.5	8.8	8.9	8.9	8.9	8.8	8.6	8.1	14	12	10.8	8	47	3.9	6.9	13
12.0	11.8	11.1	10.6	10.5	10.0	10.2	9.6	9.7	9.0	14	36	12.5	8	30	3.5	9.0	14
12.8	11.3	10.0	9.7	9.6	9.2	8.5	9.0	9.3	9.5	15	00	13.2	7	51	6.0	7.2	15
12.7	11.5	10.6	9.3	9.7	9.5	8.6	8.5	8.3	9.0	14	48	13.4	8	39	4.4	9.0	16
11.8	11.4	10.3	9.8	9.1	9.2	9.1	8.6	9.1	8.8	15	00	12.4	7	18	5.3	7.1	17
10.4	10.2	9.6	9.5	9.6	9.3	9.2	8.8	8.7	8.8	16	00	10.4	8	07	5.7	4.7	18
12.3	11.7	10.8	10.5	10.3	9.9	9.5	9.0	8.6	9.5	13	05	12.4	7	32	6.5	5.9	19
11.7	10.5	10.4	10.3	10.2	9.6	9.5	9.5	9.4	9.4	15	36	11.7	7	09	6.5	5.2	20
11.3	10.4	9.4	9.6	10.3	9.4	9.0	8.9	9.3	9.3	14	27	11.5	7	37	6.2	5.3	21
11.4	10.7	10.2	9.7	9.6	9.5	9.6	9.5	9.4	8.7	15	53	11.5	8	42	3.9	7.6	22
11.2	9.6	9.4	9.5	9.6	9.6	9.5	9.4	9.2	9.0	14	33	11.9	7	56	4.5	7.4	23
11.5	10.3	8.8	9.3	9.5	9.5	9.6	9.5	9.4	9.4	14	34	11.7	7	10	6.9	4.8	24
12.1	10.8	10.2	9.5	10.1	9.6	9.0	9.3	9.3	9.4	13	47	13.2	7	16	4.5	8.7	25
10.5	9.5	9.5	9.8	10.2	9.4	9.3	9.3	7.9	8.7	15	20	10.5	8	21	4.6	5.9	26
10.9	10.7	11.4	9.5	10.2	9.7	9.6	9.5	9.5	9.0	15	56	11.4	7	40	3.7	7.7	27
10.4	9.7	9.4	9.4	9.6	9.5	9.6	9.5	9.5	8.9	15	08	10.5	9	00	5.3	5.2	28
12.6	11.7	11.8	10.2	9.5	9.3	9.3	9.3	9.4	9.4	15	07	12.6	8	02	5.6	7.0	29
11.5	10.5	9.6	9.4	9.3	9.4	9.4	9.3	9.3	9.3	14	57	11.8	8	16	5.8	6.0	30
11.4	11.0	10.1	10.0	9.9	9.8	9.8	9.9	9.8	8.9	15	40	11.4	9	12	4.5	6.9	31
11.4	10.5	9.8	9.5	9.6	9.3	9.1	9.1	9.0	8.9							6.8	
11.1	10.1	9.6	9.3	9.4	9.3	9.2	9.1	9.0	8.9							6.1	
11.1	10.1	9.7	9.2	9.3	9.4	9.3	9.2	9.2	8.9								

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3° WEST PLUS TABULAR QUANTITIES.

11.0	10.1	9.9	9.8	9.9	9.9	9.5	9.8	9.8	9.4	14	20	11.1	8	38	6.0	5.1	1
9.3	9.1	9.1	9.2	9.7	9.8	9.7	9.7	9.8	8.8	3	00	10.9	8	42	6.1	4.8	2
11.6	11.2	10.9	10.1	10.0	10.0	10.0	10.0	9.8	9.6	15	28	11.8	8	17	6.1	5.7	3
11.1	10.8	10.1	10.0	10.0	10.0	10.0	10.0	10.0	9.4	15	41	11.1	8	04	6.3	4.8	4
11.2	11.5	10.9	10.9	10.8	10.3	10.1	10.1	10.0	9.5	15	55	11.6	8	19	6.6	5.0	5
11.8	10.7	10.2	10.2	10.2	10.1	9.9	10.0	10.0	10.0	13	00	13.1	7	36	6.1	7.0	6
11.9	11.8	11.1	10.9	10.8	10.4	10.3	10.1	10.0	10.1	15	39	12.1	7	49	7.8	4.3	7
11.7	10.8	10.1	9.9	10.1	10.0	9.9	9.1	9.4	9.1	14	44	12.3	8	51	4.6	7.7	8
9.7	9.9	9.3	9.4	9.9	10.1	10.1	9.9	9.8	8.9	21	44	10.1	7	47	6.2	3.9	9
11.2	10.5	10.3	10.2	10.0	10.0	10.1	10.1	10.1	9.4	14	31	11.9	7	53	4.1	7.8	10
10.1	10.0	10.0	10.0	10.1	10.3	10.4	10.2	10.1	9.2	20	54	10.6	7	42	4.8	5.8	11
11.9	10.8	10.9	10.3	9.0	8.3	8.2	8.2	9.0	9.5	14	41	12.2	7	46	3.3	8.9	12
12.9	11.8	10.8	10.9	10.8	10.3	10.1	10.0	10.1	9.6	15	05	12.9	8	30	6.3	6.6	13
12.3	11.9	11.0	10.4	10.5	10.2	10.1	9.9	9.9	9.7	14	46	12.8	8	15	6.0	6.8	14
13.0	12.4	11.5	10.9	10.8	10.3	10.1	10.0	9.8	10.0	15	22	13.1	8	16	6.7	6.4	15
14.7	13.8	12.3	11.1	10.9	10.3	10.1	9.1	9.2	9.8	15	18	14.8	9	07	4.0	10.8	16
12.9	11.9	11.1	10.6	9.1	8.1	9.1	10.0	10.0	9.2	14	48	13.1	7	02	3.5	9.6	17
13.1	12.9	12.4	11.8	11.0	10.9	10.7	10.6	10.5	9.3	15	30	13.1	7	51	4.0	9.1	18
11.9	12.2	12.3	11.9	11.6	11.0	10.9	10.3	10.2	9.8	17	15	12.4	8	21	5.8	6.6	19
11.3	(11.1)	(10.8)	(10.6)	(10.4)	(10.3)	(10.2)	(10.1)	(10.0)	(10.0)	14	06	11.3	7	27	7.2	4.1	20
13.1	13.8	12.9	12.1	11.9	12.6	10.9	10.4	10.0	(10.4)	16	18	14.0	8	09	6.6	7.4	21
12.9	12.8	12.1	11.8	10.5	10.1	10.1	10.1	10.1	9.5	15	57	13.1	8	09	5.3	7.8	22
12.1	11.2	10.6	10.7	10.9	10.9	10.7	10.3	10.3	10.2	15	03	12.3	7	39	6.0	6.3	23
12.1	11.9	11.2	10.9	10.9	10.8	10.8	10.2	10.2	10.1	14	55	12.2	7	42	5.9	6.3	24
11.1	10.4	10.1	10.0	10.4	10.2	10.1	10.2	10.2	9.5	15	21	11.3	8	01	5.3	6.0	25
13.7	12.9	12.9	12.0	11.9	11.9	10.9	10.8	10.9	10.5	14	57	13.9	8	17	4.8	9.1	26
12.9	11.9	11.0	10.9	10.9	10.9	10.8	10.6	10.2	10.0	14	57	12.9	8	20	3.7	9.2	27
11.6	11.9	11.2	11.4	9.9	9.0	9.4	9.1	9.0	9.8	12	50	11.9	7	56	6.2	5.7	28
11.9	11.8	11.1	11.0	11.1	10.5	10.4	10.6	10.9	10.1	15	48	12.1	8	18	5.9	6.2	29
11.5	11.9	11.9	11.1	10.9	10.7	10.8	10.7	10.7	9.9	15	56	11.9	8	07	6.0	5.9	30
11.9	11.5	11.0	10.7	10.5	10.3	10.1	10.0	10.0	9.7						6.7		
11.3	11.1	10.8	10.5	10.4	10.2	10.1	10.1	10.0	9.6						5.6		
11.3	11.1	10.8	10.4	10.3	10.3	10.2	10.1	10.1	9.7								

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3° WEST PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	10.4	10.2	10.2	10.2	10.2	9.4	8.2	6.4	5.8	6.9	7.3	8.4	8.9	9.9	10.2
2	9.0	8.2	9.4	9.3	10.0	9.2	7.6	5.8	4.7	5.8	6.9	8.1	9.3	10.9	12.0
3*	10.2	10.2	10.3	10.3	10.0	9.8	8.8	8.0	6.9	6.9	7.9	9.1	9.9	11.4	12.6
4*†	10.5	10.3	10.3	10.2	10.1	9.6	9.0	8.0	8.3	9.0	9.3	10.2	11.0	11.9	11.9
5	10.3	10.2	10.1	10.1	9.6	9.3	8.1	7.3	7.1	9.0	10.9	11.4	11.7	11.5	11.1
6	10.4	10.9	11.1	10.1	9.0	8.5	8.1	7.3	9.0	9.4	9.8	10.9	11.0	11.1	12.0
7*	10.7	10.3	10.3	10.3	10.0	9.3	7.9	5.9	5.1	6.6	8.9	10.2	11.1	11.3	11.5
8	10.8	10.2	10.0	10.1	10.0	9.9	8.1	6.1	5.7	6.9	8.1	10.0	10.2	10.9	11.5
9	10.0	9.2	10.5	9.0	8.4	8.2	6.5	5.7	6.1	8.7	10.9	12.6	13.1	13.0	13.1
10	10.8	10.3	9.9	9.6	(9.1)	(8.6)	(7.2)	(5.6)	4.6	7.2	9.0	10.2	11.5	(12.3)	(13.2)
11	10.1	10.0	10.1	10.1	9.3	9.1	8.0	6.2	5.3	6.9	7.3	8.9	10.1	11.2	11.5
12	9.9	9.4	10.8	9.3	10.0	9.9	8.0	7.2	6.9	7.4	8.4	9.7	10.1	11.9	13.1
13*	10.4	10.6	10.4	10.2	10.1	9.4	7.9	5.7	6.9	6.6	8.2	8.0	11.1	11.2	11.9
14	10.9	10.8	10.6	10.3	10.1	9.8	8.4	6.7	6.1	7.3	8.5	9.5	10.6	12.0	12.9
15*†	10.4	10.4	10.4	10.5	10.3	10.1	8.1	5.9	4.5	5.2	6.6	8.2	10.2	11.9	12.1
16*†	10.3	10.2	10.3	10.3	10.1	9.9	8.2	7.0	6.1	7.9	9.8	10.8	11.3	11.9	12.2
17†	10.6	10.3	10.3	10.6	10.3	10.1	9.1	7.2	5.3	6.1	8.2	10.9	12.1	12.5	12.8
18*	10.8	10.3	10.4	10.2	10.0	9.5	8.4	7.1	5.8	6.9	7.8	9.6	11.5	12.8	14.2
19*	10.6	10.3	10.3	10.9	9.8	9.3	9.0	8.1	7.3	8.0	9.9	11.0	11.1	10.4	11.9
20	10.6	10.6	10.3	10.5	10.2	10.2	9.5	8.1	8.0	8.3	9.3	10.1	10.3	10.9	11.1
21	10.5	10.2	10.2	10.2	9.9	9.4	8.3	7.9	8.9	10.9	11.6	12.0	12.2	12.3	12.8
22	10.8	10.4	10.1	9.9	9.5	9.2	7.3	5.9	5.7	8.8	10.6	11.4	12.4	12.6	12.2
23*	10.8	10.4	10.3	10.2	10.8	9.9	8.0	6.1	6.1	8.4	11.0	12.9	13.1	13.1	13.2
24†	10.8	10.2	10.1	10.1	10.0	9.8	9.1	8.2	7.9	8.0	9.1	10.9	11.8	11.8	11.8
25	10.4	10.4	10.2	9.9	9.9	9.3	8.1	6.1	7.1	11.1	12.9	14.3	14.3	13.9	13.2
26	10.6	10.4	10.3	10.2	9.9	9.1	7.5	6.4	4.9	5.7	7.2	8.9	10.0	12.0	14.0
27	10.9	10.9	10.9	11.1	11.1	10.1	7.6	4.8	5.0	7.9	10.3	11.4	12.2	12.9	13.1
28*	11.1	10.9	11.0	10.9	10.9	10.1	8.3	6.1	4.6	5.2	7.7	9.7	10.2	11.0	12.1
29	10.8	10.9	11.1	11.0	(10.5)	(9.8)	(8.4)	(6.6)	(5.6)	6.1	8.4	10.0	11.1	13.9	14.1
30	10.9	10.3	10.3	10.4	10.2	10.0	8.9	7.2	6.0	7.8	8.8	9.9	10.4	11.1	12.0
31	11.0	10.9	11.1	11.2	10.8	10.1	9.0	8.0	7.9	8.9	10.0	10.9	11.0	12.1	12.4
Mean.....	10.5	10.3	10.4	10.2	10.0	9.5	8.2	6.7	6.2	7.6	9.1	10.4	11.1	11.9	12.4
Mean*.....	10.6	10.4	10.4	10.4	10.2	9.7	8.4	6.8	6.2	7.1	8.7	10.0	11.0	11.7	12.4
Mean†.....	10.5	10.3	10.3	10.3	10.2	9.9	8.7	7.3	6.4	7.2	8.6	10.2	11.3	12.0	12.2

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3° WEST PLUS TABULAR QUANTITIES.

1	11.1	(11.0)	(10.6)	(10.3)	(9.7)	(9.0)	(7.5)	(6.0)	(5.7)	(6.8)	8.1	9.0	10.4	11.3	11.8
2	10.4	9.6	(9.9)	(10.4)	(10.6)	(10.7)	(9.7)	(8.8)	9.3	9.3	9.9	10.3	10.4	10.9	10.1
3	10.9	10.7	10.8	10.8	10.7	10.3	10.3	10.0	9.2	11.1	12.4	12.9	12.3	11.9	11.4
4	10.9	10.8	11.1	12.5	10.9	10.0	9.2	8.3	8.3	7.9	8.0	8.6	9.6	10.8	11.8
5*†	11.1	11.1	11.1	10.8	10.2	9.9	8.9	8.9	10.0	10.8	12.2	12.4	12.4	13.1	14.1
6	11.5	11.9	11.5	11.5	11.3	11.1	10.0	9.0	9.0	9.2	10.1	11.2	12.6	13.4	13.9
7	10.5	10.1	10.4	10.3	9.5	8.9	7.5	5.0	6.1	7.9	10.0	13.0	14.2	14.9	14.9
8	(11.7)	(11.4)	(10.9)	(10.6)	(10.0)	(9.2)	(7.5)	(5.8)	6.4	9.1	(11.0)	(12.8)	13.6	14.0	14.1
9*	11.8	11.8	11.3	11.3	10.8	9.9	7.9	6.1	6.2	9.0	12.1	14.8	15.2	14.9	13.8
10	11.2	11.2	11.2	11.2	10.8	9.9	8.1	6.3	6.1	7.4	9.8	11.1	12.6	13.4	14.1
11	11.9	11.9	12.3	11.9	10.8	10.1	8.0	5.2	4.9	6.0	9.2	11.8	13.6	15.3	15.8
12*	11.9	11.8	11.2	11.1	10.9	10.1	8.5	7.4	7.2	7.5	7.9	8.5	9.6	11.5	13.5
13*†	11.6	11.3	11.3	11.1	10.9	10.9	8.0	8.1	7.8	9.0	10.2	10.9	12.3	13.4	14.4
14*†	11.9	11.8	11.4	11.3	11.0	10.9	10.1	8.3	7.4	7.2	7.3	8.6	9.9	12.1	13.3
15*†	11.9	11.7	11.3	11.4	11.1	11.0	10.1	9.0	9.1	10.1	10.2	11.2	12.0	12.6	13.4
16	11.3	11.6	11.8	11.4	11.0	11.0	9.9	8.5	8.2	9.0	10.2	11.3	12.1	13.1	14.3
17	11.7	11.3	10.9	10.9	11.1	11.1	10.1	9.5	7.1	5.7	7.8	9.3	10.9	12.9	14.0
18	11.8	11.3	11.3	11.5	10.9	10.4	9.3	8.0	7.3	7.9	8.9	10.1	12.1	13.3	14.2
19	11.2	11.1	10.6	10.3	9.2	9.2	9.6	8.2	9.0	10.3	11.9	12.2	12.8	13.1	13.4
20*	11.8	11.8	11.3	11.1	10.8	10.1	9.0	8.9	10.1	12.1	13.3	13.8	13.8	13.5	14.0
21	11.9	11.8	11.2	11.1	10.9	10.4	9.3	7.9	7.3	8.9	9.9	11.2	12.8	13.5	13.9
22*	11.2	10.9	11.0	10.8	10.0	9.7	8.1	6.1	6.0	7.8	9.8	11.1	12.1	13.1	14.0
23*	11.7	11.8	11.9	11.1	10.7	10.6	8.7	5.9	5.0	6.8	10.0	12.9	14.3	14.9	14.8
24†	11.8	11.8	11.8	11.8	11.8	10.8	8.8	6.0	5.6	7.2	9.7	10.7	12.1	13.2	13.1
25	12.0	11.9	11.9	11.8	11.1	10.6	9.6	7.8	7.8	8.8	10.7	11.9	12.6	14.0	14.8
26	9.8	11.0	10.9	11.3	12.2	11.7	10.1	9.1	9.0	9.2	10.6	11.7	12.5	13.0	13.7
27	13.0	12.2	11.8	11.8	12.0	11.8	10.3	7.9	7.8	8.7	10.5	11.1	12.8	14.2	14.7
28	11.1	13.1	11.7	12.8	12.0	11.6	9.8	7.8	7.8	8.6	9.6	10.7	11.6	12.7	13.4
29	11.9	11.9	12.0	12.0	12.6	12.6	10.9	9.0	9.1	8.7	10.2	11.9	12.3	13.7	14.9
30	11.9	11.9	11.8	11.9	11.7	12.8	10.2	7.6	7.1	7.8	9.6	10.9	12.4	13.7	14.4
31*	11.9	11.9	12.1	12.8	11.8	11.2	10.1	7.6	6.8	9.0	11.8	11.8	13.9	15.1	15.3
Mean.....	11.5	11.5	11.3	11.3	10.9	10.6	9.2	7.7	7.5	8.5	10.1	11.3	12.3	13.2	13.8
Mean*.....	11.7	11.6	11.4	11.3	10.8	10.4	8.9	7.6	7.6	8.9	10.5	11.6	12.6	13.4	14.1
Mean†.....	11.7	11.5	11.4	11.3	11.0	10.7	9.2	8.1	8.0	8.9	9.9	10.8	11.7	12.9	13.7

* Ten least disturbed days.

† Five international quiet days.

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3° WEST PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum		Minimum		Range	Day
										<i>h</i>	<i>m</i>	<i>h</i>	<i>m</i>		
10.6	10.8	10.9	11.0	11.0	10.1	10.1	8.8	9.1	9.4	20	06	11.0	8	22	1
12.5	11.9	11.8	11.5	11.3	11.0	10.8	10.8	10.6	9.5	15	40	12.5	8	27	2
13.0	12.5	11.9	11.8	11.2	11.0	10.9	10.6	10.8	10.2	15	58	13.1	8	11	3
11.7	11.8	11.4	11.2	11.1	11.0	10.8	10.7	10.8	10.4	13	30	12.0	7	28	4
10.8	9.9	10.1	11.0	11.2	11.1	11.0	10.9	10.8	10.2	12	18	11.8	7	41	5
12.3	12.5	12.4	11.3	11.1	11.0	10.9	10.9	10.9	10.5	17	51	12.6	8	00	6
11.6	10.4	10.3	10.3	10.7	10.0	10.1	10.3	10.8	9.7	15	11	11.8	8	09	7
11.5	10.9	10.3	10.9	10.9	10.3	10.0	10.0	10.1	9.7	14	53	11.9	8	06	8
13.1	12.8	12.1	(11.8)	(11.5)	(11.2)	(11.0)	(10.9)	10.8	10.4	15	12	13.2	8	13	9
(13.5)	13.1	12.1	10.2	10.6	11.0	11.0	10.4	9.9	10.0	16	00	13.5	8	43	10
11.8	11.7	11.3	11.0	10.9	10.4	10.9	10.3	11.0	9.7	15	57	12.1	8	18	11
13.1	12.2	11.3	11.0	11.0	11.0	10.9	10.8	10.8	10.2	15	05	13.2	8	12	12
11.9	12.1	11.8	11.1	11.2	11.1	11.0	10.9	11.0	10.0	15	42	12.1	7	54	13
13.1	12.3	11.2	11.1	11.1	10.9	10.8	10.6	10.4	10.2	15	09	13.2	7	34	14
11.9	10.9	10.6	10.9	11.0	10.9	10.8	10.3	10.4	9.7	14	37	12.2	8	44	15
12.6	12.2	12.1	11.3	11.0	10.9	10.7	10.7	10.8	10.4	15	33	12.9	8	24	16
12.9	12.4	12.0	11.3	11.2	11.0	10.9	10.9	10.9	10.4	15	30	12.9	8	25	17
14.9	13.8	12.6	11.8	11.1	11.1	10.9	10.8	10.8	10.5	15	08	14.9	8	23	18
12.1	12.0	11.8	11.6	11.3	11.1	10.9	10.9	10.9	10.4	15	30	12.1	8	42	19
11.2	11.1	11.1	11.2	11.1	11.0	10.9	10.9	10.6	10.3	15	39	11.2	7	34	20
12.7	11.8	10.8	10.8	11.2	11.2	11.1	11.0	10.9	10.8	14	53	12.9	7	18	21
11.2	10.9	11.1	11.3	11.3	11.1	11.0	10.8	10.8	10.3	14	10	12.7	8	07	22
13.1	12.3	11.9	11.5	11.3	11.0	10.9	10.9	10.9	10.8	14	44	13.3	8	00	23
11.5	11.4	12.1	12.0	12.0	11.7	11.1	10.9	10.5	10.5	18	30	12.1	8	28	24
12.9	11.1	10.3	10.3	11.0	10.9	11.0	10.1	10.3	10.8	12	09	14.7	7	50	25
13.8	12.2	11.8	10.9	11.2	11.1	10.3	10.0	9.8	9.9	14	54	14.1	8	40	26
12.6	11.9	10.8	10.6	10.9	10.4	10.9	10.9	10.9	10.4	14	27	13.1	7	55	27
12.8	(12.1)	11.3	10.9	10.5	10.9	10.9	10.9	10.9	10.0	15	22	12.9	8	34	28
13.5	12.9	11.2	11.0	11.1	11.1	10.4	10.9	11.0	10.5	14	10	14.3	9	00	29
12.3	12.6	11.9	11.1	11.0	11.1	11.1	11.1	11.1	10.3	15	47	12.7	8	00	30
12.4	12.1	11.3	11.3	11.4	11.3	11.1	11.1	11.1	10.8	15	28	12.5	8	27	31
12.4	11.9	11.4	11.1	11.1	11.0	10.8	10.6	10.7	10.2					7.2	
12.6	12.0	11.6	11.2	11.0	10.9	10.8	10.7	10.8	10.2					7.1	
12.1	11.7	11.6	11.3	11.3	10.9	10.8	10.6	10.7	10.3						

AUGUST, 1915.

3° WEST PLUS TABULAR QUANTITIES.

11.8	11.8	11.3	10.5	10.3	10.1	9.1	10.1	10.2	9.7	14	54	11.8	8	48	5.3	6.5	1
10.1	10.8	11.0	10.8	10.8	10.8	11.0	10.0	11.3	10.3	22	56	12.2	(8	00)	8.8	3.4	2
11.4	11.9	12.1	11.2	11.7	11.9	11.2	10.3	11.0	11.2	11	38	12.9	8	27	9.1	3.8	3
12.6	13.1	13.1	12.8	11.8	11.8	11.8	11.3	11.3	10.8	17	00	13.1	9	06	7.3	5.8	4
14.1	13.9	12.9	12.2	11.9	12.0	11.8	11.9	11.8	11.6	15	34	14.2	8	00	8.2	6.0	5
14.1	12.5	13.0	12.6	11.8	11.0	10.2	9.1	10.1	11.3	15	27	14.1	7	40	8.3	5.8	6
14.9	13.4	12.7	(12.5)	(12.7)	(12.8)	(12.4)	11.9	(11.9)	11.2	14	52	15.0	7	32	5.0	10.0	7
14.0	13.1	12.6	12.1	12.1	12.1	11.8	11.8	11.8	11.2	14	21	14.2	--	--	4.7	9.5	8
12.9	11.1	10.5	11.0	11.9	12.1	12.1	11.9	11.3	11.3	12	33	15.3	7	49	5.3	10.0	9
14.3	13.9	12.8	12.2	12.1	12.1	12.1	11.9	11.4	11.1	15	08	14.3	8	17	5.0	9.3	10
15.0	13.4	12.8	12.1	12.2	12.2	12.1	11.9	11.6	11.3	14	10	15.9	8	00	4.3	11.6	11
13.9	13.6	12.8	12.2	12.2	12.3	12.1	11.5	11.2	10.8	16	00	14.0	8	12	6.9	7.1	12
14.3	13.6	13.0	12.9	12.4	12.2	12.1	11.9	11.9	11.5	14	57	14.4	8	04	7.4	7.0	13
14.0	14.0	13.3	12.6	12.3	12.1	12.0	11.8	11.8	11.1	16	00	14.0	9	04	7.0	7.0	14
13.9	13.1	12.3	11.9	12.0	12.1	12.0	11.9	11.6	11.5	15	31	14.0	8	06	8.2	5.8	15
14.4	13.3	12.3	12.4	12.9	12.7	12.3	12.1	11.9	11.6	14	47	14.7	7	48	8.0	6.7	16
14.2	13.8	12.9	12.3	12.1	12.3	12.1	11.4	11.7	11.1	15	27	14.2	9	34	4.9	9.3	17
14.9	14.3	13.9	13.1	13.0	12.4	12.2	11.9	11.5	11.5	15	30	14.9	8	38	7.0	7.9	18
13.6	13.5	13.4	13.1	13.0	12.6	12.4	12.1	12.0	11.6	15	12	13.7	7	32	7.2	6.5	19
14.5	14.1	14.0	13.3	13.0	12.8	12.3	12.1	11.8	12.2	15	41	14.6	7	15	8.0	6.6	20
14.7	13.8	13.0	12.7	12.8	12.9	12.6	12.1	11.8	11.6	16	00	14.7	8	15	6.9	7.8	21
13.9	12.9	12.5	12.7	12.6	12.0	11.9	11.9	11.9	11.0	14	42	14.6	7	59	5.6	9.0	22
14.2	12.7	11.7	11.7	12.0	12.0	11.9	11.9	12.0	11.3	13	36	15.0	8	00	4.6	10.4	23
12.7	11.2	10.8	11.5	12.0	12.0	12.0	12.0	12.1	10.9	14	10	13.6	8	25	5.1	8.5	24
14.2	12.7	11.7	11.4	11.1	8.7	9.7	10.4	11.4	11.2	14	32	14.9	8	04	7.2	7.7	25
13.9	12.8	12.0	11.8	11.7	11.6	11.9	11.9	12.0	11.5	15	06	13.9	7	35	7.7	6.2	26
13.9	13.2	13.0	12.7	12.2	11.7	(11.3)	(10.9)	11.0	11.7	14	05	15.1	8	15	7.1	8.0	27
13.7	12.8	12.2	12.7	12.7	12.5	12.0	11.9	12.0	11.5	1	12	14.0	7	42	7.2	6.8	28
15.0	14.0	13.7	10.9	12.1	12.1	10.9	11.9	11.8	11.9	15	10	15.2	9	07	8.0	7.2	29
14.6	14.2	13.9	12.7	12.3	12.3	11.9	11.6	11.9	11.7	15	08	14.7	7	47	6.5	8.2	30
14.8	14.0	12.6	11.8	11.8	11.7	11.6	11.8	11.9	11.9	13	17	15.4	8	10	6.4	9.0	31
13.8	13.1	12.6	12.1	12.1	11.9	11.7	11.5	11.6	11.3						7.6		
14.0	13.3	12.6	12.2	12.2	12.1	12.0	11.9	11.7	11.4						7.8		
13.8	13.2	12.5	12.2	12.1	12.1	12.0	11.7	11.6	11.3								

SEPTEMBER, 1915.

3° WEST PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	11.9	11.9	11.9	11.9	11.7	11.0	9.9	8.1	7.3	7.7	8.8	10.6	11.7	13.1	14.1
2*	11.9	12.7	12.1	11.9	11.1	10.9	9.8	8.6	8.6	9.8	11.0	12.8	12.8	12.2	12.0
3	11.9	11.9	11.7	11.7	11.2	10.9	9.7	8.5	8.9	10.9	11.6	12.6	13.0	13.6	14.0
4	12.0	11.8	11.7	11.7	11.0	10.7	8.9	7.7	9.0	11.0	12.7	13.7	13.8	13.6	12.8
5	11.9	11.3	11.6	11.0	10.7	10.0	8.7	7.3	8.0	10.2	12.7	14.1	14.9	15.2	14.7
6*	11.9	11.8	11.8	11.7	11.1	10.8	9.0	7.0	7.0	8.7	10.4	11.9	13.2	14.1	14.5
7*†	11.9	11.7	11.6	11.2	10.8	9.9	8.6	6.6	6.1	8.0	9.9	12.1	13.2	13.8	13.8
8*†	11.9	11.8	11.8	11.7	11.1	10.9	9.9	8.7	9.0	10.3	11.1	11.9	12.8	12.9	13.1
9*	11.9	11.9	11.8	11.7	11.0	10.9	9.7	7.9	8.0	9.6	11.7	13.7	14.0	14.1	13.9
10	11.8	11.2	10.8	9.9	9.1	9.1	9.3	9.5	10.0	11.9	13.6	14.1	14.5	14.6	13.9
11	11.7	11.1	11.1	11.4	11.2	10.9	9.8	7.9	7.0	7.2	9.8	12.6	13.9	14.7	13.9
12*	12.0	11.9	11.8	11.8	11.5	10.9	9.7	7.8	7.9	9.6	11.3	13.7	14.7	14.8	14.8
13	11.8	12.0	11.9	11.9	11.6	10.7	9.3	7.3	5.9	7.7	9.8	12.3	14.7	15.6	15.6
14	12.0	12.7	12.0	12.1	12.6	11.8	10.1	7.8	6.7	7.2	9.8	12.4	14.7	15.1	14.8
15*	11.7	11.8	11.7	11.7	11.1	10.7	9.7	7.6	7.1	8.1	9.6	10.7	11.6	11.9	12.7
16	11.9	11.8	11.6	11.7	11.1	10.9	10.0	8.3	7.8	9.9	11.2	12.7	12.9	13.6	13.9
17	11.7	11.7	11.1	10.7	10.8	11.8	10.7	10.1	11.0	12.1	11.8	13.4	13.9	14.7	15.0
18†	12.1	12.0	11.9	11.9	11.6	11.0	10.1	9.6	10.6	10.0	10.9	12.2	13.1	14.0	14.1
19*†	12.2	12.0	12.0	11.9	11.6	11.1	10.6	9.7	9.7	11.4	13.7	15.7	16.1	15.7	14.7
20*†	12.3	11.9	11.9	11.9	11.8	11.3	10.6	9.9	9.9	10.9	12.4	13.0	13.6	13.5	13.0
21*	12.3	11.9	11.9	11.9	11.8	10.9	10.1	9.6	8.9	10.1	12.6	14.6	15.7	15.7	15.2
22	12.2	12.1	12.2	11.7	11.0	9.9	10.4	9.8	9.1	10.0	12.9	14.2	14.7	14.7	14.8
23	11.8	12.7	14.6	11.7	11.2	12.9	11.9	10.9	10.2	12.4	12.8	14.1	15.2	15.0	14.7
24	12.1	12.3	11.9	12.1	12.8	12.3	10.9	9.7	9.7	10.8	12.9	13.9	14.6	14.7	13.7
25	12.6	12.8	13.0	12.4	11.2	10.7	10.6	9.0	8.7	9.8	11.1	12.2	13.7	14.3	14.7
26	12.3	12.6	11.9	12.6	12.6	11.6	10.8	9.9	8.9	9.8	10.8	13.6	14.7	15.0	14.8
27	12.7	13.2	14.8	12.9	12.0	11.8	11.0	9.3	8.1	8.8	9.7	11.7	12.9	13.7	14.1
28	12.3	12.9	14.1	14.0	13.9	12.9	11.9	9.8	8.6	9.3	10.6	11.9	13.6	14.7	15.0
29	11.1	11.0	12.5	12.7	12.7	12.3	11.8	11.8	11.0	10.7	11.9	12.7	13.0	13.0	12.7
30	12.9	12.4	11.7	11.6	11.8	11.8	11.9	11.0	10.2	10.8	12.0	13.0	12.9	13.4	13.7
Mean.....	12.0	12.0	12.1	11.8	11.5	11.1	10.2	8.9	8.6	9.8	11.4	12.9	13.8	14.2	14.1
Mean*.....	12.0	11.9	11.8	11.7	11.3	10.8	9.8	8.3	8.2	9.6	11.4	13.0	13.8	13.9	13.8
Mean†.....	12.1	11.9	11.8	11.7	11.4	10.8	10.0	8.9	9.1	10.1	11.6	13.0	13.8	14.0	13.7

OCTOBER, 1915.

3° WEST PLUS TABULAR QUANTITIES.

1	12.2	12.1	12.1	12.1	11.4	10.6	11.1	10.3	10.3	10.5	11.6	12.3	12.9	13.1	13.4
2†	12.2	12.1	12.2	12.1	11.7	11.3	10.9	10.0	9.7	10.1	11.2	12.1	12.4	13.2	13.8
3	12.3	12.2	12.2	12.2	11.7	11.7	11.3	10.6	9.4	9.0	9.1	10.1	11.4	12.7	13.4
4	12.2	11.9	11.5	11.6	11.4	11.3	11.1	9.6	8.3	8.2	9.3	10.6	12.1	13.1	13.6
5*†	12.1	12.0	12.0	12.0	11.8	11.5	11.3	10.5	10.2	10.1	10.6	11.5	12.1	12.4	12.9
6*	12.4	12.4	12.3	12.3	12.2	12.0	11.9	11.3	10.8	11.0	12.2	13.4	14.1	14.3	14.0
7*	12.5	12.5	12.4	12.4	12.3	11.6	11.4	10.4	9.6	10.1	11.6	13.4	13.5	13.5	13.4
8*	12.9	12.6	12.5	12.4	12.3	11.7	11.4	10.5	10.4	11.2	12.3	13.4	13.4	13.4	13.4
9*†	12.7	12.7	12.7	12.5	12.2	11.6	10.3	9.1	9.4	10.9	12.2	12.8	13.7	13.7	13.7
10	13.0	12.7	12.7	12.7	12.6	12.3	12.1	11.3	10.6	10.9	11.7	12.9	14.4	15.6	15.6
11	13.5	13.7	13.7	13.7	12.8	12.6	12.6	11.8	10.8	9.7	11.4	12.6	13.6	15.1	15.9
12*	12.3	12.2	12.4	12.4	12.1	11.8	11.8	10.8	8.5	7.3	7.6	9.6	11.8	13.9	14.9
13*	12.3	12.6	12.6	12.7	12.7	12.1	11.9	10.8	9.0	8.4	9.4	10.9	12.9	14.5	15.0
14	12.7	12.7	12.7	12.8	12.8	12.8	12.2	11.3	9.5	8.9	9.4	11.5	12.9	14.0	14.2
15	10.7	10.0	9.7	10.7	10.8	14.0	15.8	17.3	15.9	14.2	14.0	14.1	13.3	13.1	14.0
16	11.9	12.9	13.1	13.4	13.4	13.4	13.3	12.6	10.9	9.8	9.8	10.6	11.1	11.9	13.3
17	11.8	11.7	12.6	12.4	12.3	12.2	12.0	11.9	11.3	11.8	13.0	13.9	14.3	14.3	14.5
18†	13.2	13.4	13.2	13.2	13.1	13.1	13.1	12.4	11.2	10.6	10.3	11.0	11.9	13.0	14.3
19	13.4	13.3	13.4	14.3	12.8	12.5	13.2	13.4	12.3	12.4	12.1	13.4	15.5	15.7	16.7
20	13.3	15.5	13.5	13.2	14.6	16.2	15.8	14.0	11.1	10.3	11.1	12.4	13.5	13.9	14.4
21	13.1	14.6	13.4	13.4	13.6	13.7	14.5	12.4	11.5	11.3	12.1	13.4	13.6	13.6	14.4
22	14.0	14.0	14.5	14.4	13.7	13.7	14.3	13.6	12.7	12.2	12.5	14.6	14.8	14.7	14.6
23	13.4	13.9	14.8	13.5	13.8	13.6	13.5	13.3	13.6	13.3	15.9	15.9	16.1	16.7	16.0
24	12.6	13.6	12.9	13.0	12.6	13.4	12.8	11.7	10.4	10.2	11.1	13.1	14.4	15.0	15.0
25	14.2	13.7	13.7	15.8	15.1	14.2	14.2	14.9	13.8	13.8	14.2	15.6	16.1	16.0	15.2
26	12.8	13.0	13.7	14.0	14.2	13.9	13.8	13.6	11.5	11.4	11.2	12.4	13.4	13.6	13.8
27*	13.8	13.7	13.8	13.9	13.6	12.8	12.8	12.6	12.4	11.6	11.8	13.2	14.2	15.0	15.0
28*	13.1	13.4	13.6	13.7	13.6	12.8	12.8	12.5	10.2	9.8	10.2	11.6	13.8	15.0	16.0
29*†	13.1	13.2	13.7	13.7	13.7	13.7	14.2	13.7	11.6	11.2	11.3	12.6	13.0	13.7	14.2
30	13.4	13.7	13.7	13.9	13.8	13.1	12.8	12.7	11.8	11.6	12.7	13.9	15.1	15.1	15.4
31	12.8	13.2	13.2	13.3	13.2	12.8	12.7	12.5	11.2	10.8	11.4	12.7	13.6	13.8	14.5
Mean.....	12.8	12.9	12.9	13.0	12.8	12.7	12.7	12.0	11.0	10.7	11.4	12.6	13.5	14.1	14.5
Mean*.....	12.7	12.7	12.8	12.8	12.6	12.2	12.0	11.2	10.2	10.2	10.9	12.2	13.2	13.9	14.2
Mean†.....	12.7	12.7	12.8	12.7	12.5	12.2	12.0	11.1	10.4	10.6	11.1	12.0	12.6	13.2	13.8

* Ten least disturbed days.

† Five international quiet days.

SEPTEMBER, 1915.

3° WEST PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>m</i>	<i>h</i>	<i>m</i>	<i>h</i>	<i>h</i>		
14.2	13.7	12.9	12.6	12.7	12.6	12.2	12.1	12.0	11.5	15	36	14.4	8	00	7.1	7.3	1
12.6	12.9	12.9	12.8	12.8	12.7	12.0	12.0	12.1	11.7	1	51	13.4	8	11	7.8	5.6	2
14.6	13.9	13.0	12.7	12.7	12.7	12.5	12.2	12.2	12.0	16	00	14.7	7	22	7.9	6.8	3
12.3	12.2	12.2	12.6	12.7	12.7	12.6	12.1	12.1	11.8	12	31	13.8	7	06	7.1	6.7	4
13.7	12.9	12.7	12.7	12.6	12.3	12.2	12.1	12.1	11.9	13	14	15.5	7	15	6.7	8.8	5
14.3	14.0	13.6	13.6	12.6	12.6	12.3	12.1	12.0	11.8	16	00	14.7	7	32	6.5	8.2	6
13.6	13.1	12.7	12.4	12.6	12.6	12.2	12.0	12.0	11.4	14	07	13.9	7	40	5.8	8.1	7
13.5	13.0	12.8	12.8	12.7	12.7	12.4	12.1	12.1	11.8	15	39	13.5	7	18	8.6	4.9	8
13.6	12.7	12.7	12.9	12.8	12.7	12.6	12.4	12.1	11.9	13	57	14.2	7	36	7.6	6.6	9
12.9	11.8	11.9	12.1	12.1	11.9	11.9	11.9	12.1	11.7	13	15	14.7	4	59	8.8	5.9	10
13.3	12.9	12.6	12.0	12.0	12.0	12.0	12.1	12.1	11.5	13	21	14.8	9	05	6.8	8.0	11
14.1	13.2	12.8	12.6	12.2	12.2	11.9	11.8	11.8	12.0	14	05	14.9	7	47	7.1	7.8	12
14.5	13.6	13.0	12.2	11.4	11.8	11.9	12.0	12.1	11.7	13	55	15.7	8	18	5.7	10.0	13
13.9	12.9	12.7	12.8	12.8	12.6	12.2	12.5	12.6	12.0	13	33	15.2	8	35	6.6	8.6	14
12.9	12.8	12.7	12.6	12.7	12.6	11.9	11.9	11.9	11.2	15	51	13.0	8	00	6.8	6.2	15
14.0	13.6	12.9	12.1	12.1	12.6	12.1	12.0	11.8	11.8	15	33	14.2	8	01	7.4	6.8	16
14.7	13.7	12.8	12.7	12.7	12.4	12.5	12.5	12.6	12.4	14	43	15.0	8	17	8.6	6.4	17
13.9	13.2	12.8	12.8	12.8	12.7	12.6	12.6	12.7	12.1	14	31	14.4	8	15	8.9	5.5	18
14.0	13.5	13.1	12.8	12.8	12.8	12.7	12.6	12.6	12.7	12	43	16.2	8	01	8.9	7.3	19
12.9	13.1	13.3	13.6	13.1	12.9	12.7	12.2	12.6	12.3	13	03	13.6	7	15	9.6	4.0	20
14.7	13.8	12.9	12.7	12.8	12.7	12.7	12.5	12.6	12.5	12	18	16.7	7	51	8.7	8.0	21
14.9	14.1	13.3	12.9	11.8	11.7	11.0	11.7	11.9	12.2	15	15	15.0	8	56	7.6	7.4	22
14.1	13.9	13.2	12.3	12.6	12.7	12.3	11.1	12.9	12.8	12	24	15.4	8	09	9.0	16.4	23
13.6	13.2	12.3	11.1	12.4	12.3	12.3	12.1	12.7	12.4	13	04	14.9	7	45	8.8	6.1	21
14.3	13.1	13.1	11.8	12.1	11.6	12.4	12.7	12.7	12.1	13	57	14.8	8	28	8.5	6.3	25
14.7	13.9	12.9	11.8	12.8	12.8	12.6	12.7	12.8	12.5	13	26	15.2	8	08	8.5	6.7	26
13.9	13.8	13.6	13.1	13.0	12.8	11.9	11.8	11.9	12.2	2	20	14.9	7	55	7.9	7.0	27
14.6	13.1	12.6	12.1	11.9	10.4	9.8	10.8	12.3	12.2	14	57	15.0	8	08	7.8	7.2	28
12.9	13.6	13.2	13.2	12.1	12.7	12.7	12.1	12.6	12.3	16	37	13.7	9	09	10.6	3.1	29
13.7	13.7	13.5	13.6	13.4	13.0	12.9	12.8	12.8	12.5	0	54	15.0	9	19	9.9	5.1	30
13.8	13.3	12.9	12.6	12.5	12.4	12.2	12.1	12.3	12.0							6.8	
13.6	13.2	13.0	12.9	12.7	12.6	12.3	12.2	12.2	11.9							6.7	
13.6	13.2	12.9	12.9	12.8	12.6	12.5	12.4	12.4	12.0								

NOVEMBER, 1915.

3° WEST PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	12.5	13.0	12.6	11.9	11.6	12.5	12.5	13.6	13.0	13.7	14.0	15.1	15.1	14.5	15.0
2	13.4	13.2	13.1	13.7	13.3	13.1	13.9	13.9	13.3	13.0	13.0	13.9	14.6	14.6	14.9
3*†	13.6	13.6	13.6	13.7	13.7	13.1	13.2	12.7	12.5	12.7	13.9	14.9	15.2	16.0	16.1
4*†	13.1	13.4	13.7	13.6	13.2	13.0	13.3	13.6	13.1	13.9	15.1	16.1	16.2	16.1	16.0
5	13.8	13.7	13.6	13.4	13.0	12.8	12.7	11.4	10.6	11.2	12.7	14.0	15.1	16.2	16.1
6	11.8	11.9	13.0	14.0	14.9	13.0	13.9	17.4	15.6	13.7	13.0	13.7	13.2	13.0	13.9
7	13.8	13.9	13.6	13.7	13.6	12.8	12.8	12.7	11.6	12.4	13.0	15.5	15.2	15.1	15.1
8	13.1	13.2	13.4	13.7	13.7	13.0	12.6	11.4	11.9	13.8	15.4	16.2	16.3	16.2	15.4
9	12.7	13.2	12.6	13.0	12.5	12.5	12.4	11.3	11.2	11.2	11.9	13.7	16.0	15.9	15.8
10	13.6	13.9	13.6	14.5	13.6	12.4	12.4	11.2	10.1	10.4	11.6	13.5	14.8	15.8	16.0
11	13.9	14.0	14.6	15.9	14.6	13.6	13.7	12.9	11.2	11.1	11.5	12.2	13.6	14.6	15.8
12	13.5	13.5	15.7	14.7	14.6	15.7	15.9	14.7	12.1	9.9	9.9	11.1	13.5	14.8	15.8
13*	13.5	13.7	13.3	13.6	13.9	13.9	13.9	13.6	12.4	11.7	11.5	12.3	13.6	14.6	14.8
14*†	13.6	13.5	13.5	13.6	13.6	13.6	13.9	13.7	12.5	12.3	12.4	12.8	13.7	14.7	14.9
15	13.5	13.4	13.5	13.6	13.5	13.3	12.5	11.1	10.7	12.3	12.2	14.0	14.8	15.7	15.8
16	14.9	16.1	14.6	14.7	14.7	14.7	14.9	14.7	13.7	13.5	12.5	13.4	14.0	14.8	14.8
17	13.7	14.5	14.6	15.7	14.7	14.6	14.8	14.8	14.8	12.5	12.4	13.6	13.6	14.7	14.8
18	14.4	13.8	14.0	14.0	15.0	14.7	15.2	14.5	12.7	12.8	12.7	13.9	14.5	15.2	15.2
19	14.3	15.0	16.1	15.2	14.9	14.1	14.0	14.1	13.8	12.9	13.1	13.4	14.6	14.7	15.2
20	14.1	14.4	13.9	14.0	14.0	13.8	13.7	13.1	11.6	11.5	12.7	15.6	15.2	15.3	15.3
21	14.9	14.0	14.7	14.3	14.0	13.8	13.9	14.0	13.9	13.9	14.3	15.5	16.3	16.3	16.4
22	14.4	14.4	15.2	15.5	14.1	14.0	14.9	13.9	12.8	12.9	14.0	16.3	16.5	17.3	16.5
23*	14.3	14.7	14.9	14.1	13.8	13.8	14.0	14.4	13.9	13.8	14.4	15.6	16.5	16.4	16.3
24*	14.1	14.1	14.9	14.7	14.0	13.9	14.0	14.0	12.6	12.0	13.2	15.0	15.3	16.1	15.3
25*	14.7	14.6	15.1	15.1	15.0	14.1	14.0	12.7	11.5	10.2	11.6	13.1	15.0	16.2	16.2
26*	14.4	14.4	14.5	14.4	14.0	14.0	12.9	12.9	11.5	10.9	12.7	14.5	15.6	16.1	15.1
27	14.1	15.2	15.0	14.0	14.0	13.9	13.7	13.7	11.3	10.5	11.3	12.3	13.1	14.3	15.8
28	12.9	14.0	16.2	15.2	14.9	15.0	15.0	15.0	13.1	11.6	11.5	12.5	13.5	14.4	15.3
29*†	14.0	13.9	14.0	14.0	13.8	13.8	13.8	13.7	11.5	10.2	10.3	11.6	13.9	15.0	15.3
30*†	14.0	14.0	14.0	13.9	13.8	13.5	13.7	13.7	12.3	11.4	10.5	10.8	11.7	12.8	14.0
Mean.....	13.8	13.9	14.2	14.2	13.9	13.7	13.7	13.5	12.4	12.1	12.6	13.9	14.7	15.2	15.4
Mean*.....	13.9	14.0	14.2	14.1	13.9	13.7	13.7	13.5	12.4	11.9	12.6	13.7	14.7	15.4	15.4
Mean†.....	13.7	13.7	13.8	13.8	13.6	13.4	13.6	13.5	12.4	12.1	12.4	13.2	14.1	14.9	15.3

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3° WEST PLUS TABULAR QUANTITIES.

1*†	14.0	13.9	13.9	13.9	13.7	13.3	13.9	13.7	12.8	11.7	11.7	11.8	12.5	12.9	13.9
2*	13.9	13.9	13.9	13.9	13.6	13.2	13.3	13.2	11.9	10.6	10.5	11.7	13.0	14.1	14.4
3	13.2	14.0	13.9	14.0	13.3	13.2	13.0	13.0	11.9	11.7	12.5	13.4	15.2	15.6	15.5
4*	14.3	14.3	14.3	14.3	14.3	14.0	14.1	14.0	12.6	11.7	12.1	14.2	15.6	16.0	15.7
5†	14.3	14.3	14.4	14.5	14.4	14.3	14.1	14.1	12.9	12.3	12.9	14.2	15.5	15.7	15.7
6	15.4	15.6	15.6	15.6	15.0	14.5	14.4	16.0	15.1	14.5	14.8	16.4	15.8	16.9	19.8
7	15.7	15.7	15.9	16.9	16.4	15.5	14.5	14.5	12.9	11.8	12.0	13.3	14.8	16.0	16.9
8	14.5	14.7	14.7	14.8	14.7	14.7	13.6	13.3	10.8	10.6	11.1	12.7	13.4	14.7	14.8
9	14.7	14.9	15.0	15.4	15.0	14.7	14.7	14.0	12.2	11.0	11.9	13.6	15.8	16.2	16.2
10	14.8	15.7	15.7	15.9	15.6	14.8	14.7	14.4	12.2	10.9	11.1	13.3	15.9	17.4	18.2
11	14.4	14.5	14.6	14.9	14.8	14.6	14.0	13.7	12.3	11.0	10.7	12.3	14.0	15.2	15.2
12	13.7	13.7	13.8	13.7	13.7	13.7	13.7	13.7	12.1	10.5	10.5	12.2	13.7	14.7	15.0
13*	13.9	14.3	14.8	14.7	14.7	14.7	14.3	14.8	13.6	12.3	12.0	13.5	14.9	16.1	16.4
14	14.9	14.9	15.0	15.2	15.2	14.9	14.4	14.9	13.0	11.5	12.2	12.7	13.8	15.2	16.5
15	14.8	15.0	15.2	15.5	16.2	16.6	15.2	15.1	13.5	13.7	13.5	13.5	13.9	15.0	15.6
16	15.8	15.1	14.9	14.8	15.1	15.1	14.1	14.9	13.9	12.8	12.6	13.7	14.1	15.2	16.3
17	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	13.8	12.6	11.9	12.1	13.5	15.2	15.7
18*†	14.9	14.9	15.0	14.9	14.9	14.0	14.0	14.0	12.7	12.2	11.0	11.0	12.1	13.5	14.5
19*	15.2	15.4	15.4	15.5	15.4	15.4	15.2	15.4	14.2	13.1	12.6	13.8	15.5	16.7	18.0
20*	15.2	14.9	15.1	15.1	14.8	14.5	14.5	14.6	13.7	13.0	13.8	13.9	13.9	14.6	15.1
21*†	15.0	15.0	15.0	15.3	15.3	15.1	15.0	14.9	13.7	12.5	12.5	14.0	15.4	16.4	16.5
22†	15.4	15.4	15.4	15.3	15.1	15.1	14.5	15.0	13.7	12.6	13.0	14.0	15.0	15.4	15.5
23	15.2	15.3	15.5	15.2	14.3	15.1	15.1	14.2	12.6	11.8	11.3	12.6	14.2	16.8	16.9
24	14.2	14.0	14.2	14.7	14.7	14.5	14.2	14.3	13.9	12.6	13.7	15.3	15.5	15.3	15.5
25	15.3	15.4	15.4	16.3	15.5	15.4	15.4	15.4	12.8	11.3	12.6	15.5	15.5	17.1	16.8
26	14.1	15.1	15.4	15.2	15.2	15.4	14.7	14.4	14.1	13.6	13.3	14.1	14.4	15.4	15.5
27	14.7	15.3	15.3	15.5	15.5	15.5	15.0	15.8	13.3	11.2	11.2	14.1	18.3	18.7	18.3
28	14.4	14.4	14.7	15.3	15.3	15.1	14.8	14.1	12.3	10.9	10.9	12.8	15.3	16.8	17.1
29	15.1	15.4	15.5	15.5	15.5	15.5	15.2	14.6	12.5	9.9	11.2	15.7	19.2	19.8	18.9
30*	15.1	14.6	14.7	15.3	15.5	15.3	14.7	14.1	11.9	9.8	10.4	13.9	17.0	19.3	19.7
31*	15.3	14.8	14.4	14.5	14.2	14.4	14.4	14.1	12.6	10.6	13.0	15.9	17.2	17.1	16.9
Mean.....	14.7	14.8	14.9	15.1	14.9	14.7	14.4	14.4	13.0	11.8	12.1	13.6	15.0	16.0	16.4
Mean*.....	14.7	14.6	14.6	14.7	14.6	14.4	14.3	14.3	13.0	11.8	12.0	13.4	14.7	15.7	16.1
Mean†.....	14.7	14.7	14.7	14.8	14.7	14.4	14.3	14.3	13.2	12.3	12.2	13.0	14.1	14.8	15.2

* Ten least disturbed days.

† Five international quiet days

NOVEMBER, 1915.

3° PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum		Minimum		Range	Day
										<i>h</i>	<i>m</i>	<i>h</i>	<i>m</i>		
15.5	15.2	15.1	15.0	13.9	13.4	12.8	13.0	13.1	13.6	15	30	16.3	4	36	1
14.9	14.9	14.5	14.0	13.9	13.7	13.3	13.6	13.7	13.8	15	23	15.0	5	03	2
15.1	14.9	14.8	14.0	13.8	13.7	13.6	13.6	13.7	14.0	14	02	16.2	8	48	3
15.2	14.9	14.3	13.9	13.8	13.7	13.7	13.8	13.9	14.2	12	32	16.2	5	00	4
16.0	15.2	14.2	13.4	12.5	11.6	7.9	11.3	12.7	13.1	14	49	17.0	21	32	5
15.0	15.2	12.5	12.8	12.4	12.7	12.7	13.2	13.6	13.6	7	26	18.5	0	30	6
14.8	14.8	14.2	13.7	13.6	12.7	12.6	11.6	13.1	13.6	12	17	16.2	6	12	7
15.0	13.1	12.7	12.5	12.5	11.6	12.0	12.4	12.6	13.5	12	23	16.3	8	10	8
14.8	14.7	14.7	13.6	13.5	12.8	13.4	13.4	13.6	13.4	15	00	16.5	9	16	9
16.4	16.0	15.3	14.6	13.7	13.4	12.7	13.3	13.6	13.6	15	20	16.4	8	44	10
16.0	15.7	14.8	13.9	13.5	13.1	13.1	13.1	13.5	13.7	15	34	16.0	9	00	11
16.1	15.9	14.8	14.7	13.3	12.7	13.5	13.5	13.6	13.9	16	00	16.1	10	04	12
14.9	15.1	14.9	14.5	13.7	12.4	13.5	13.6	13.6	13.6	17	00	15.2	10	00	13
15.8	15.7	14.8	13.7	13.7	13.6	13.4	13.4	13.5	13.7	15	54	15.8	9	25	14
17.0	16.9	14.8	14.6	13.4	13.6	13.4	13.4	13.7	13.8	15	58	17.0	8	58	15
14.9	14.7	13.6	13.4	13.7	13.5	12.5	12.7	13.4	14.1	1	23	17.0	10	16	16
14.8	15.1	14.7	13.9	13.9	11.6	12.2	13.9	13.9	14.1	3	01	16.1	20	30	17
15.0	13.9	13.8	13.2	13.3	12.9	13.4	13.3	14.0	14.0	4	45	15.3	8	10	18
15.3	15.2	14.9	13.7	12.6	13.2	14.0	14.0	14.1	14.3	2	56	17.4	9	50	19
15.2	15.1	14.9	13.9	12.9	14.0	13.8	14.0	14.3	14.0	14	52	15.3	9	08	20
15.3	13.9	14.3	14.6	14.3	13.2	13.8	14.0	14.0	14.5	14	28	16.5	8	37	21
16.2	15.0	14.9	14.1	13.9	13.9	13.9	14.0	14.1	14.7	10	36	17.3	8	26	22
15.2	14.6	14.0	14.0	14.0	13.8	13.8	15.0	14.0	14.6	13	23	16.7	9	12	23
15.2	15.1	14.9	14.0	13.9	13.9	13.9	14.0	14.4	14.3	13	21	16.2	9	12	24
16.1	15.0	14.0	14.0	14.0	13.9	13.8	13.9	14.1	14.1	15	15	16.3	9	04	25
14.7	14.7	14.0	14.1	14.0	13.9	13.9	13.8	14.0	14.0	13	32	16.3	9	06	26
15.9	15.2	15.1	15.5	14.7	13.3	12.9	13.2	12.9	13.8	15	19	16.4	9	17	27
16.1	15.1	14.3	14.1	14.0	13.9	13.7	13.8	14.0	14.1	2	17	16.5	10	06	28
15.3	14.9	14.4	14.4	14.9	14.0	13.8	14.0	13.9	13.7	14	42	16.1	9	45	29
15.0	15.0	14.7	14.0	13.9	13.8	13.2	13.8	13.8	13.4	16	00	15.0	10	39	30
15.4	15.0	14.4	14.0	13.6	13.2	13.1	13.5	13.7	13.9					5.2	
15.2	15.0	14.5	14.1	14.0	13.7	13.7	13.9	13.9	13.9					4.6	
15.3	15.1	14.6	14.0	14.0	13.5	13.6	13.7	13.8	13.8						

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3° WEST PLUS TABULAR QUANTITIES.

14.1	14.3	14.2	14.1	14.0	14.0	14.0	14.0	14.1	13.5	16	12	14.3	10	01	11.7	2.6	1
14.5	14.1	14.2	14.3	14.1	13.8	13.3	13.2	13.5	13.3	15	17	14.8	10	03	10.4	4.4	2
15.5	15.1	15.0	14.5	14.5	14.3	14.3	14.3	14.3	14.0	13	33	15.7	9	30	11.7	4.0	3
15.3	14.3	14.3	14.3	14.3	14.2	14.2	14.2	14.2	14.2	13	45	16.5	9	30	11.7	4.8	4
15.4	14.8	14.4	14.3	14.2	14.3	14.1	14.4	14.7	14.3	13	31	15.7	9	20	12.2	3.5	5
19.8	18.3	15.8	14.5	13.7	14.1	14.1	13.6	14.4	15.6	15	07	20.6	18	52	12.2	8.4	6
16.9	15.9	15.2	14.6	14.5	13.4	13.4	13.3	14.0	14.8	3	45	17.3	9	28	11.3	6.0	7
14.7	14.7	14.5	14.5	14.4	13.9	13.6	13.9	14.5	13.8	14	44	14.9	9	30	10.6	4.3	8
16.0	15.9	16.0	15.0	14.7	14.5	14.4	14.5	14.6	14.6	13	36	16.3	9	39	10.7	5.6	9
18.5	17.2	15.1	14.8	14.7	14.1	13.7	13.7	13.9	14.8	15	14	18.5	9	31	10.7	7.8	10
15.6	15.8	15.2	15.2	15.0	14.5	14.6	13.6	13.7	14.1	15	31	16.0	10	15	10.1	5.9	11
15.0	14.9	14.9	14.9	14.9	14.6	13.8	13.8	14.1	13.7	14	30	15.0	9	48	9.7	5.3	12
16.4	16.1	15.5	15.2	15.1	14.8	14.0	14.0	14.4	14.6	14	50	16.5	10	10	11.2	5.3	13
16.6	15.7	15.2	15.0	15.0	14.1	13.9	14.8	14.9	14.6	15	00	17.4	9	43	11.3	6.1	14
16.2	15.5	15.0	15.0	14.7	13.7	13.9	13.9	14.0	14.8	5	00	17.7	11	09	12.4	5.3	15
16.3	16.2	15.4	15.2	15.1	14.0	14.1	14.1	14.8	14.7	0	38	16.7	9	48	12.5	4.2	16
15.6	15.3	15.0	15.0	15.0	14.9	14.3	14.5	14.7	14.5	14	42	16.3	11	00	11.2	5.1	17
15.3	15.3	15.3	15.1	14.9	14.2	14.2	14.7	15.0	14.1	15	32	15.4	11	00	10.4	5.0	18
17.4	16.2	15.4	15.4	15.2	15.2	14.8	14.9	15.1	15.3	14	38	18.1	10	40	12.3	5.8	19
14.8	14.1	14.2	14.2	14.2	13.9	13.9	14.2	14.9	14.4	0	00	15.3	9	36	13.0	2.3	20
16.5	15.8	15.6	15.1	15.0	15.0	15.0	15.0	15.1	15.0	14	36	16.7	10	08	12.5	4.2	21
15.4	15.3	15.1	14.8	15.0	14.8	14.7	14.8	15.0	14.8	15	03	15.5	9	21	12.6	2.9	22
16.6	15.3	15.3	15.2	15.2	14.1	14.1	14.1	14.2	14.6	14	12	17.1	10	30	11.2	5.9	23
15.5	15.6	15.6	15.6	15.6	15.2	15.0	14.9	15.2	14.8	15	34	15.6	9	21	12.6	3.0	24
17.4	16.3	15.8	15.5	15.4	15.4	16.1	14.1	14.1	15.2	15	12	18.0	9	43	10.9	7.1	25
15.5	15.2	15.2	15.2	15.2	14.2	14.2	14.4	15.2	14.8	2	37	15.7	9	55	12.6	3.1	26
16.8	15.6	15.5	15.0	15.5	14.4	14.1	14.1	14.4	15.1	13	20	18.8	10	00	10.6	8.2	27
16.8	15.4	15.1	15.3	15.4	14.3	14.1	14.6	14.8	14.6	14	15	17.1	9	55	9.8	7.3	28
18.4	17.0	16.3	16.0	15.8	15.5	15.2	14.3	14.5	15.5	13	14	20.0	9	31	9.6	10.4	29
18.5	16.1	15.5	15.5	15.5	15.3	15.3	14.9	15.2	15.1	14	04	19.9	9	50	9.5	10.4	30
17.2	16.1	16.1	15.9	15.9	14.7	14.7	14.7	14.7	15.0	15	10	17.4	0	00	9.4	8.0	31
16.3	15.6	15.2	15.0	14.9	14.4	14.3	14.2	14.5	14.6						5.6		
16.0	15.2	15.0	14.9	14.8	14.5	14.3	14.4	14.6	14.4						5.3		
15.3	15.1	14.9	14.7	14.6	14.4	14.1	14.3	14.5	14.3								

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3° WEST PLUS TABULAR QUANTITIES.

Day	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon,	13h	14h	15h
1*	14.6	14.6	14.8	14.8	14.5	14.5	14.5	14.4	11.5	09.4	10.2	13.0	14.6	16.2	16.3
2*†	14.8	15.0	15.0	15.0	15.1	14.6	14.6	14.6	12.6	10.9	12.0	14.6	16.4	18.2	18.7
3	15.6	15.8	15.7	15.8	15.6	15.6	15.2	15.0	13.4	12.7	12.6	14.6	17.6	19.2	19.0
4	15.7	15.2	15.8	15.8	15.7	15.2	15.2	14.6	13.2	11.6	11.4	14.4	16.2	17.5	17.2
5	15.7	15.2	15.8	15.8	15.7	14.8	14.8	14.8	13.2	11.6	12.1	13.2	16.4	17.2	16.4
6	15.0	15.0	15.0	15.2	15.1	15.0	14.6	14.2	12.8	11.4	10.4	12.7	14.8	16.0	16.8
7*	15.0	15.1	15.1	15.3	15.0	15.0	14.9	15.0	13.2	12.1	12.1	13.5	15.2	18.1	18.1
8*†	15.0	15.3	15.4	15.4	15.1	14.8	14.5	14.4	12.3	10.7	11.2	12.7	15.3	17.4	18.3
9	15.1	15.3	15.5	15.5	15.4	15.2	14.7	14.4	11.5	09.6	10.6	12.6	16.3	17.6	17.5
10	14.5	14.6	14.7	15.1	15.1	14.6	14.2	13.6	11.8	11.2	12.3	13.8	15.9	17.7	17.9
11	15.4	15.5	15.7	17.3	17.5	17.5	17.3	17.0	14.0	12.6	10.7	14.3	16.0	18.1	18.7
12	14.4	14.5	14.4	15.2	14.6	14.5	14.4	14.4	12.7	12.5	13.2	14.5	16.4	17.4	17.5
13	15.4	15.5	16.2	16.2	15.5	15.3	15.3	14.6	12.7	10.7	11.3	13.5	15.4	15.5	17.1
14	15.3	15.4	15.5	15.4	15.2	14.8	14.6	14.5	12.6	10.6	11.4	14.2	15.4	16.4	17.0
15*†	15.2	15.2	15.3	15.5	15.2	15.1	14.8	14.6	13.2	10.6	10.9	14.4	16.1	16.3	16.4
16*	14.9	15.3	15.8	15.6	15.3	15.1	15.0	14.6	13.3	11.1	11.5	13.7	15.7	16.8	17.0
17*†	15.1	15.3	15.5	15.5	15.4	15.3	15.1	14.7	13.3	11.5	11.2	11.7	14.3	15.8	16.5
18*	15.3	15.5	15.5	15.6	15.5	15.5	15.6	15.7	13.8	12.0	11.4	12.5	15.2	16.4	16.5
19†	15.3	15.4	15.5	15.6	15.5	15.4	15.4	15.0	13.2	11.3	10.5	12.4	14.7	17.4	17.6
20	15.2	14.8	15.4	15.6	14.6	15.2	15.4	15.4	13.1	11.4	12.6	14.8	17.4	18.6	17.6
21	14.9	15.3	15.4	15.5	15.4	15.5	15.4	15.0	12.6	11.2	10.5	11.8	14.6	17.5	18.7
22	15.2	15.3	15.4	15.5	14.5	15.4	16.6	15.6	14.9	13.8	13.5	14.7	17.6	18.6	18.4
23	14.6	13.7	13.8	14.6	15.4	15.3	14.8	14.3	11.9	11.5	11.6	13.4	15.5	17.4	18.3
24	15.0	15.4	15.7	15.6	16.2	15.5	14.5	14.6	13.4	11.6	11.7	13.4	15.4	17.4	17.8
25	15.3	15.8	16.9	15.6	16.4	15.4	15.2	15.3	13.5	12.3	12.4	13.8	15.6	16.5	16.7
26	15.5	15.5	15.5	15.4	15.2	14.8	14.8	14.6	13.4	12.3	11.7	13.4	16.1	17.4	17.4
27*	15.0	14.9	14.9	15.2	14.9	14.9	14.8	14.7	13.0	11.8	11.7	12.8	14.6	16.0	16.6
28	15.4	15.7	15.6	15.7	15.5	15.2	15.0	15.0	13.8	12.6	12.2	14.4	16.7	17.9	17.2
29	15.1	15.5	15.7	15.8	15.7	15.6	15.7	15.3	13.7	11.9	11.6	12.4	13.8	14.7	15.1
30	15.6	15.9	15.9	16.0	15.6	15.2	15.1	15.7	14.9	14.0	13.4	13.7	14.9	16.4	17.0
31*	15.8	15.9	16.0	15.9	16.3	15.8	15.7	15.9	14.3	12.7	11.2	11.0	12.0	14.7	16.8
Mean.....	15.2	15.2	15.4	15.5	15.4	15.2	15.1	14.9	13.1	11.7	11.6	13.4	15.6	17.0	17.4
Mean*.....	15.1	15.2	15.3	15.4	15.2	15.1	15.0	14.9	13.0	11.3	11.3	13.0	14.9	16.6	17.1
Mean†.....	15.1	15.2	15.3	15.4	15.3	15.0	14.9	14.7	12.9	11.0	11.2	13.2	15.4	17.0	17.5

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3° WEST PLUS TABULAR QUANTITIES.

1*†	15.7	15.7	15.8	15.9	15.7	15.6	15.8	15.9	15.0	14.5	14.0	14.9	15.8	17.7	18.0
2*	15.9	15.9	15.9	15.8	15.6	15.6	15.7	15.5	13.9	12.7	12.1	12.1	12.9	13.9	15.6
3*	15.9	15.9	15.9	16.0	15.8	15.6	15.6	15.6	14.2	13.0	14.7	15.9	17.1	17.1	17.9
4	15.9	15.9	15.9	16.0	15.9	15.7	15.7	15.6	13.9	12.6	11.9	12.2	13.6	15.1	16.1
5	15.4	15.4	15.7	15.7	15.7	15.2	14.9	15.6	14.4	13.8	13.7	14.2	15.9	17.8	19.1
6*†	15.5	15.6	15.9	15.9	15.7	15.5	15.6	15.8	14.7	13.8	13.2	14.0	14.9	15.9	16.7
7	15.5	15.7	15.8	15.9	15.7	15.6	15.9	15.9	15.1	14.8	14.7	14.9	16.3	18.9	19.8
8	15.8	15.9	15.9	16.0	15.8	15.2	15.1	15.7	15.1	13.7	12.0	12.0	13.8	15.9	17.9
9	15.8	15.9	16.1	16.8	16.1	15.9	15.9	15.8	13.9	12.1	11.0	11.9	13.6	15.1	17.1
10	15.8	16.0	16.9	16.8	16.1	15.8	15.8	16.1	14.7	12.0	10.9	11.9	13.5	15.9	17.5
11*	15.7	15.7	15.9	16.1	16.1	16.0	15.9	15.8	14.2	13.0	12.6	13.0	14.1	15.8	17.1
12	15.9	15.9	16.2	16.4	16.2	16.1	16.5	16.4	15.1	13.7	12.7	12.7	13.2	14.0	14.9
13	16.0	16.8	17.1	16.1	15.9	15.9	15.9	16.5	15.3	14.2	13.2	13.7	13.9	14.9	15.7
14	15.9	17.0	16.7	16.8	16.7	16.2	15.9	16.4	15.4	14.0	12.8	12.9	13.0	14.1	16.1
15	16.2	16.0	15.9	16.6	15.8	15.8	16.0	16.3	15.0	13.1	12.0	12.3	13.0	13.9	14.9
16*†	16.0	16.0	16.0	16.3	16.0	16.0	16.0	16.7	15.1	13.7	12.8	13.0	14.1	15.9	17.3
17	15.9	16.0	16.2	16.7	16.0	15.9	16.0	16.8	15.9	14.8	13.8	13.9	15.1	16.8	18.1
18	15.8	15.9	16.2	15.8	16.2	16.0	15.0	16.2	14.9	13.3	13.7	14.6	15.6	16.6	18.1
19	15.8	15.6	15.9	16.0	16.1	15.9	15.9	15.9	14.7	13.6	12.7	13.7	15.6	15.9	17.4
20	15.8	16.4	16.6	16.2	16.0	15.9	15.9	15.9	14.8	13.1	12.7	13.7	14.9	16.8	18.8
21*†	16.4	16.6	16.7	16.2	15.9	15.9	15.9	14.0	13.5	12.5	12.2	14.0	15.8	16.7	17.7
22	16.1	16.8	16.2	15.9	16.0	15.7	15.9	16.1	14.9	13.9	13.0	14.7	15.6	16.8	17.9
23	16.1	16.6	16.7	16.7	16.0	16.0	15.9	15.8	14.8	13.9	12.9	14.9	16.6	17.9	19.3
24	15.9	15.9	15.9	16.2	16.1	15.9	15.9	15.9	14.3	12.7	11.9	12.9	14.6	15.9	18.0
25*†	16.0	16.0	15.9	16.2	16.1	16.1	16.0	16.1	14.9	13.9	12.8	13.1	15.1	17.4	18.7
26	15.9	15.9	16.0	16.1	16.0	15.9	16.2	16.6	15.8	14.3	13.8	14.8	15.9	17.1	17.9
27	16.2	16.6	16.6	16.7	16.5	16.5	16.1	16.6	15.0	13.7	12.9	13.0	14.6	16.1	17.7
28*	16.4	16.2	16.7	16.9	16.9	16.0	16.2	16.0	14.8	13.1	12.7	13.0	14.7	15.8	17.0
29*	16.2	16.6	16.8	16.7	16.3	16.1	16.7	16.8	15.9	13.8	12.9	13.2	14.8	16.5	17.9
Mean.....	15.9	16.1	16.2	16.3	16.0	15.8	15.9	16.0	14.8	13.5	12.8	13.5	14.7	16.1	17.5
Mean*.....	16.0	16.0	16.2	16.2	16.0	15.8	15.9	15.8	14.6	13.4	13.0	13.6	14.9	16.3	17.4
Mean†.....	15.9	16.0	16.1	16.1	15.9	15.8	15.9	15.7	14.6	13.7	13.0	13.8	15.1	16.7	17.7

*Ten least disturbed days.

†Five international quiet days.

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3° WEST PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean.	Maximum.			Minimum.			Range.	Day.
										<i>h</i>	<i>m</i>	<i>'</i>	<i>h</i>	<i>m</i>	<i>'</i>	<i>'</i>	
16.2	15.8	15.1	14.8	14.8	14.8	14.8	14.8	15.0	14.3	13	41	16.3	9	42	08.5	7.8	1
17.4	15.8	15.0	15.2	15.8	15.1	14.8	14.8	15.7	15.1	14	19	18.8	9	25	10.4	8.4	2
17.6	15.8	15.8	15.8	15.6	15.6	15.7	14.8	14.6	15.6	13	45	19.3	10	06	11.6	7.7	3
16.0	14.5	14.6	15.6	15.7	15.0	14.8	15.0	15.2	15.0	14	15	17.5	10	20	10.2	7.3	4
16.2	15.3	15.4	15.2	15.0	14.8	14.9	14.9	14.9	15.0	13	11	17.5	10	05	11.4	6.1	5
16.1	15.3	15.3	15.5	15.0	14.9	14.8	14.9	15.0	14.6	14	08	16.8	10	35	10.3	6.5	6
16.9	15.7	15.5	15.2	15.2	14.5	14.5	14.6	15.1	15.0	14	04	18.2	9	54	11.9	6.3	7
17.6	15.6	15.0	14.5	14.7	14.3	13.5	14.5	14.8	14.7	14	39	18.5	9	55	09.6	8.9	8
16.8	15.6	15.3	15.4	15.3	14.5	14.4	14.4	14.6	14.7	13	54	17.8	9	38	09.4	8.4	9
17.3	16.3	14.9	15.3	14.5	13.6	14.3	14.5	14.6	14.7	13	54	18.5	9	20	10.8	7.7	10
19.6	18.5	14.0	15.6	14.8	13.5	13.5	13.2	12.2	15.5	15	20	20.3	9	54	10.7	9.6	11
16.6	15.9	14.8	13.6	14.5	13.7	14.2	12.6	13.5	14.6	13	51	17.5	9	27	12.4	5.1	12
17.2	16.6	15.6	15.6	15.3	14.8	15.2	15.2	15.4	15.0	15	17	17.2	9	50	09.8	7.4	13
16.7	15.8	15.7	15.6	15.5	15.2	15.1	15.2	14.9	14.9	15	00	17.0	9	45	10.5	6.5	14
16.2	15.8	15.7	15.5	15.4	14.9	14.7	14.8	15.1	14.9	14	19	16.4	10	08	10.4	6.0	15
17.0	16.5	16.4	15.8	15.4	15.2	15.1	14.5	15.2	15.1	15	03	17.3	9	54	10.5	6.8	16
16.4	15.6	15.6	15.5	15.5	15.1	14.7	14.8	15.3	14.8	14	33	16.5	10	38	10.6	5.9	17
16.3	15.6	16.1	15.5	15.3	14.9	14.8	15.1	15.3	15.0	14	03	16.5	10	31	11.2	5.3	18
17.1	15.5	16.2	15.4	15.4	14.9	14.9	15.0	15.3	15.0	14	00	17.7	11	00	10.4	7.3	19
16.3	16.2	16.4	16.1	15.5	14.6	14.5	14.6	15.1	15.3	13	45	18.7	9	41	10.7	8.0	20
18.5	16.5	15.8	15.7	15.5	14.8	14.6	14.6	14.8	15.0	14	52	19.0	10	25	10.4	8.6	21
17.8	16.8	15.5	15.5	15.5	13.4	13.7	15.3		15.6	13	36	18.8	21	16	12.5	6.3	22
18.3	17.4	16.2	15.9	15.2	15.1	14.8	14.7	15.0	14.9	14	52	18.6	9	51	10.8	7.8	23
17.8	16.7	15.6	15.4	15.3	14.6	14.5	14.8	15.2	15.1	14	34	18.3	9	50	11.5	6.8	24
17.2	16.8	16.9	16.3	15.5	14.9	14.4	14.6	15.3	15.4	15	20	17.3	9	23	11.6	5.7	25
17.8	17.0	16.4	15.9	15.9	15.2	15.0	14.9	15.1	15.3	15	36	18.1	10	17	11.5	6.6	26
16.8	17.3	16.8	16.3	15.9	15.6	15.1	15.0	15.7	15.0	16	35	17.2	9	01	11.0	6.0	27
17.1	16.8	16.4	16.0	15.9	15.6	15.0	13.2	15.3	15.4	13	35	17.9	10	00	11.9	6.0	28
16.5	16.7	16.7	16.0	16.1	15.7	15.7	15.8	15.8	15.1	16	51	16.7	10	15	11.3	5.4	29
17.0	16.4	15.8	15.8	15.6	15.6	15.8	15.7	15.8	15.5	14	42	17.2	10	47	13.0	4.2	30
17.0	16.7	16.7	16.0	16.0	15.7	15.6	15.7	15.8	15.2	15	45	17.0	11	18	10.8	6.2	31
17.1	16.2	15.7	15.5	15.4	14.9	14.7	14.7	15.0	15.0							6.9	
16.8	16.0	15.8	15.4	15.4	15.0	14.8	14.9	15.3	14.9							6.8	
16.9	15.7	15.5	15.2	15.4	14.9	14.9	14.8	15.1	14.9								

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3° WEST PLUS TABULAR QUANTITIES.

17.2	15.7	15.6	15.7	15.8	15.7	15.3	15.8	15.8	15.8	14	30	18.0	10	24	13.8	4.2	1
16.8	17.0	17.0	16.0	15.8	15.6	15.2	15.7	15.9	15.2	16	43	17.1	11	23	11.9	5.2	2
17.8	16.0	15.8	15.7	15.7	15.6	15.7	15.8	15.9	15.8	14	30	17.9	10	00	12.9	5.0	3
16.2	16.3	16.2	15.7	15.7	14.9	14.8	14.9	15.1	15.1	16	01	16.7	10	54	11.7	5.0	4
19.0	18.0	16.2	15.9	15.8	15.5	15.0	15.0	15.2	15.8	14	30	19.7	9	00	12.9	6.8	5
16.9	16.9	16.8	15.9	15.9	15.7	15.1	15.2	15.3	15.5	16	00	17.0	10	19	13.1	3.9	6
19.7	17.9	17.0	17.1	16.7	15.0	15.0	14.9	15.7	16.2	15	03	20.0	10	55	14.4	5.6	7
18.8	18.4	17.0	15.8	15.8	15.7	15.4	15.7	15.8	15.6	16	02	18.9	11	00	10.6	8.3	8
18.0	(17.6)	17.1	16.5	16.0	15.8	15.1	15.5	15.7	15.4	16	03	18.1	10	30	10.7	7.4	9
18.7	18.0	17.0	16.5	15.9	15.7	15.3	15.3	15.7	15.6	16	02	18.7	10	44	10.9	7.8	10
18.7	18.3	17.3	16.7	16.0	15.9	15.8	15.9	15.8	15.7	15	45	18.9	10	22	12.2	6.7	11
16.1	16.9	16.9	16.6	16.5	15.9	15.9	15.0	15.0	15.4	17	13	17.2	10	36	11.9	5.3	12
16.1	16.8	17.0	16.6	15.2	15.9	15.8	15.7	15.8	15.7	3	28	17.7	10	52	13.0	4.7	13
18.0	18.0	17.7	16.9	16.8	16.0	15.9	15.9	15.8	15.9	16	01	18.7	11	38	12.8	5.9	14
16.7	17.6	17.8	17.1	16.7	15.9	15.9	15.9	16.0	15.5	17	00	17.9	11	00	11.9	6.0	15
17.8	17.8	16.7	17.1	16.3	15.9	15.9	15.9	15.9	15.8	15	31	18.0	10	48	12.7	5.3	16
18.8	18.1	17.9	17.0	16.1	15.2	15.7	15.9	15.7	16.2	15	03	18.9	10	45	13.5	5.4	17
19.1	(18.3)	17.1	16.9	16.1	15.8	15.9	15.7	15.8	16.0	15	46	19.2	9	38	12.9	6.3	18
17.9	17.8	17.4	16.9	16.6	16.1	15.9	15.9	16.0	15.9	15	27	18.0	10	31	12.0	6.0	19
19.3	18.8	17.8	17.0	16.7	15.9	15.8	15.9	16.1	16.1	15	51	19.5	10	32	12.4	7.1	20
17.9	16.7	16.7	16.6	16.0	15.9	15.9	15.9	16.0	15.7	15	15	18.0	9	51	11.9	6.1	21
18.6	18.6	17.8	17.1	16.7	16.0	16.0	16.0	16.0	16.2	16	02	18.8	10	25	12.9	5.9	22
19.8	(18.7)	18.1	17.8	16.5	15.5	15.8	15.9	16.1	16.4	15	11	19.8	10	05	12.7	7.1	23
18.8	18.5	17.8	17.1	17.0	16.7	16.0	15.9	15.9	15.9	15	41	19.0	10	25	11.8	7.2	24
18.8	18.7	17.8	17.3	17.0	16.6	16.1	16.1	16.1	16.2	15	55	18.8	10	27	12.7	6.1	25
17.9	(17.4)	17.1	17.1	16.9	16.7	16.1	16.0	16.4	16.2	15	07	18.1	10	28	13.5	4.6	26
18.8	18.7	18.7	17.6	16.9	16.5	16.4	16.5	16.6	16.3	15	38	19.0	10	53	12.8	6.2	27
18.1	18.2	17.8	17.2	16.8	16.2	16.2	16.1	16.6	16.1	15	57	18.3	10	33	12.0	6.3	28
18.7	18.0	17.7	17.0	16.9	16.7	16.6	16.7	16.6	16.3	15	21	18.8	10	29	12.9	5.9	29
18.1	17.7	17.2	16.7	16.3	15.9	15.7	15.7	15.9	15.8							6.0	
17.9	17.3	16.9	16.5	16.2	16.0	15.8	15.9	16.0	15.8							5.5	
17.7	17.2	16.7	16.5	16.2	15.9	15.7	15.7	15.8	15.8								

MARCH, 1916.

3° WEST PLUS TABULAR QUANTITIES.

Day	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon.	13h	14h	15h
1*†	16.4	16.6	16.7	16.8	16.7	16.8	16.7	16.1	14.8	13.7	12.9	13.1	14.0	15.9	16.9
2	16.5	16.7	16.7	16.7	16.3	16.1	16.0	15.8	13.9	12.8	12.1	12.9	14.8	16.3	17.0
3	15.8	16.0	15.9	17.4	15.5	15.8	15.9	16.0	14.4	13.9	13.9	14.7	15.7	17.8	18.7
4*	15.9	16.1	16.4	16.4	16.1	15.9	15.9	15.9	14.0	13.0	13.7	14.9	16.2	17.1	18.0
5*	16.1	16.1	16.6	16.2	15.9	15.8	15.9	15.7	14.0	12.8	12.8	14.7	15.9	17.7	18.7
6	16.6	16.7	16.8	16.7	16.7	16.6	16.7	15.8	12.8	11.8	11.0	12.9	15.5	17.8	18.8
7	15.9	15.4	15.7	16.0	15.9	15.9	16.0	15.8	14.8	13.7	13.0	14.3	15.9	18.0	19.2
8	16.2	15.9	16.0	15.9	15.9	15.0	14.7	14.7	11.4	10.0	13.7	16.2	16.7	17.8	19.5
9	12.6	13.1	13.9	15.9	15.9	16.7	16.3	15.1	11.8	11.1	11.9	13.1	15.8	19.2	20.8
10	16.8	16.9	17.1	17.0	16.9	16.8	16.4	15.8	12.9	11.7	11.0	13.0	15.8	19.1	20.1
11	16.8	16.9	16.9	16.9	16.8	16.6	16.6	16.0	14.7	12.9	13.7	15.4	16.8	17.9	19.9
12	16.0	16.7	16.8	17.8	16.8	16.8	16.5	15.3	13.5	12.1	12.6	14.1	15.9	18.2	19.1
13*†	16.8	16.8	17.0	17.0	16.8	16.7	16.6	15.9	14.6	13.0	13.5	14.9	15.8	17.5	18.8
14*	15.9	16.6	16.8	16.8	17.0	16.8	17.0	16.3	13.7	13.7	13.6	14.9	16.7	18.1	19.8
15*†	16.8	16.8	16.9	17.0	17.0	16.7	16.8	16.5	14.6	12.8	12.2	13.9	15.9	18.5	20.0
16	16.8	16.8	16.8	16.8	16.6	16.1	16.0	16.0	15.1	14.7	15.0	16.6	17.9	19.2	19.7
17	15.6	13.9	16.3	17.0	16.1	16.7	15.9	15.0	14.7	14.9	16.3	17.8	18.9	19.2	18.8
18	15.9	15.9	15.9	15.9	15.8	15.8	15.7	15.0	14.0	14.2	15.7	17.8	19.2	20.0	20.2
19	16.8	16.6	16.7	16.7	15.8	15.7	15.1	14.1	13.8	13.1	14.2	15.4	16.7	18.8	19.2
20	16.7	16.8	16.8	16.9	16.6	16.1	16.7	15.9	12.1	11.8	12.9	15.6	17.8	19.9	20.8
21	15.9	16.8	16.5	15.9	17.3	16.7	15.8	14.8	12.1	11.8	13.0	15.4	17.2	19.8	20.8
22*	16.1	16.0	16.0	16.8	16.7	16.1	16.0	15.7	13.2	11.9	12.1	14.9	18.1	20.9	21.9
23*†	16.7	16.7	16.9	16.9	16.9	16.8	16.8	15.9	13.2	12.0	12.0	13.9	15.8	18.1	19.9
24	16.7	16.6	16.7	16.7	15.9	15.9	15.9	15.9	14.0	13.4	13.9	15.1	17.1	19.7	21.1
25	16.7	16.7	16.2	16.8	16.3	16.0	16.4	15.9	14.3	13.7	14.2	15.7	16.6	17.2	18.4
26	16.2	16.8	17.1	18.0	16.9	17.0	16.9	16.7	15.9	14.8	14.0	14.8	16.6	17.8	18.2
27*†	17.0	16.8	16.8	17.0	16.8	16.8	17.0	17.0	15.4	14.3	13.8	15.0	16.9	18.1	18.3
28*	17.0	17.0	17.0	16.8	16.6	16.4	15.9	15.7	13.7	12.8	12.8	14.4	15.8	17.2	18.0
29	16.7	16.6	16.7	17.0	16.7	16.1	16.8	17.0	16.7	15.7	15.9	18.2	19.1	18.2	18.9
30	16.7	16.5	16.8	17.1	14.8	13.7	14.9	14.9	14.0	15.0	16.7	17.8	19.0	21.0	20.8
31	16.9	16.9	16.6	15.1	15.0	15.3	14.8	14.0	15.2	15.0	15.0	15.9	17.1	19.9	21.0
Mean.....	16.3	16.3	16.5	16.7	16.4	16.2	16.1	15.7	14.0	13.2	13.5	15.1	16.7	18.4	19.4
Mean*.....	16.5	16.6	16.7	16.8	16.6	16.5	16.5	16.1	14.1	13.0	12.9	14.5	16.1	17.9	19.0
Mean†.....	16.7	16.7	16.9	16.9	16.8	16.8	16.8	16.3	14.5	13.2	12.9	14.2	15.7	17.6	18.8

APRIL, 1916.

3° WEST PLUS TABULAR QUANTITIES.

1	16.6	16.4	16.3	16.9	16.9	16.8	16.2	14.8	13.8	13.2	14.0	16.2	19.0	20.9	21.2
2*	17.4	18.0	17.5	17.1	16.9	16.8	16.1	14.8	12.1	11.1	12.2	16.0	19.9	23.2	24.0
3*	17.1	17.4	17.0	17.0	16.9	16.7	16.0	13.1	11.0	11.1	14.1	18.1	21.2	23.0	23.1
4*†	17.1	17.1	17.0	17.1	17.1	16.9	16.9	15.9	15.0	14.2	14.3	15.9	17.8	19.9	21.0
5†	17.0	17.0	16.9	17.1	16.8	16.4	15.8	14.1	13.0	12.8	12.1	13.1	15.9	18.2	(20.0)
6	17.3	17.3	16.8	17.2	17.0	16.9	16.6	15.3	13.5	12.9	12.8	14.1	15.9	18.3	20.9
7	17.9	17.4	17.2	17.2	17.2	17.3	17.4	16.9	14.2	12.2	11.2	13.1	17.0	20.3	21.1
8	17.0	17.1	17.0	17.2	17.0	17.0	16.3	14.2	13.1	14.1	15.0	15.8	17.2	20.0	21.1
9	17.2	17.1	17.4	17.4	17.3	17.1	17.8	16.9	15.0	14.2	13.3	14.8	17.0	17.1	18.9
10*†	17.2	17.2	17.2	17.1	17.2	17.0	17.0	16.0	14.5	13.3	13.6	14.8	16.2	18.1	18.4
11*	17.2	17.2	17.2	17.2	17.1	16.9	16.3	15.8	14.4	14.9	15.1	16.0	17.1	18.4	19.5
12*	17.6	17.7	17.3	17.1	17.1	17.1	17.0	16.2	16.0	16.9	17.4	17.8	19.1	20.1	20.1
13†	17.2	17.2	17.2	17.1	17.1	16.9	16.2	15.0	13.9	13.6	14.2	16.0	17.2	18.9	19.1
14	17.5	17.1	17.1	16.6	16.0	16.0	16.1	15.8	14.9	15.0	15.8	16.0	16.9	18.1	18.5
15	17.3	17.3	16.7	17.1	16.9	16.7	15.6	15.3	15.8	15.2	16.0	17.4	19.2	20.2	21.2
16	17.6	18.1	17.7	17.0	16.7	16.8	16.0	15.8	15.7	15.8	15.8	16.5	18.2	19.9	20.7
17*	17.8	17.8	17.6	17.7	17.1	16.7	16.1	14.8	14.3	15.3	17.0	18.8	19.9	21.8	22.0
18	18.0	18.1	17.1	19.6	17.0	16.0	16.1	14.8	12.9	13.1	14.9	17.5	19.2	20.4	20.3
19	17.7	17.7	17.6	17.7	17.1	16.9	16.7	15.6	14.7	14.0	15.2	17.1	19.9	21.7	22.0
20	17.8	17.7	17.2	17.1	16.8	16.6	15.5	13.9	13.7	14.1	14.1	15.6	16.9	19.1	20.8
21*	17.8	17.8	17.7	17.7	17.5	17.5	16.6	14.9	14.7	14.8	15.8	17.8	19.9	20.9	21.5
22	16.6	16.7	16.9	17.8	17.8	16.9	15.9	14.7	13.7	12.8	12.8	14.8	17.7	19.8	20.1
23*	17.8	17.2	17.7	17.1	16.0	16.0	16.3	15.7	14.7	15.7	16.3	18.0	19.9	21.8	22.7
24*†	17.6	18.1	17.8	17.8	17.7	17.6	16.9	15.1	14.4	14.7	14.8	15.6	16.9	19.4	21.5
25	17.8	17.7	17.6	17.0	17.1	17.9	16.9	16.2	15.7	16.7	17.1	18.4	19.8	22.0	23.8
26	18.4	18.5	18.1	17.1	16.9	16.8	15.5	14.0	14.5	14.3	14.9	16.2	17.1	18.8	19.8
27	17.8	18.0	17.0	18.5	16.8	16.5	15.7	15.0	15.6	16.3	18.6	19.0	19.6	21.8	22.8
28	19.7	17.5	15.8	16.1	16.9	15.1	12.7	10.5	10.7	12.5	14.7	16.5	16.8	18.1	19.6
29	18.7	16.6	16.8	15.4	16.6	15.5	13.5	12.5	12.2	14.0	16.7	18.7	20.5	21.7	22.5
30	17.2	17.7	17.7	16.8	16.5	16.4	15.0	12.5	11.6	11.9	14.7	16.9	19.7	21.6	21.8
Mean.....	17.6	17.5	17.2	17.2	17.0	16.7	16.1	14.9	14.0	14.0	14.8	16.4	18.3	20.1	21.0
Mean*.....	17.5	17.6	17.4	17.3	17.1	16.9	16.5	15.2	14.1	14.2	15.1	16.9	18.8	20.7	21.4
Mean†.....	17.2	17.3	17.2	17.2	17.2	17.0	16.6	15.2	14.2	13.7	13.8	15.1	16.8	18.9	20.0

* Ten least disturbed days.

† Five international quiet days.

HOURLY VALUES OF DECLINATION.

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MARCH, 1916.

3° WEST PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean.	Maximum.			Minimum.			Range.	Day.
/	/	/	/	/	/	/	/	/	/	<i>h</i>	<i>m</i>	/	<i>h</i>	<i>m</i>	/	/	/
17.1	17.2	17.1	17.0	16.7	16.6	16.1	16.2	16.6	16.0	15	59	17.2	10	30	12.9	4.3	1
17.0	17.2	17.7	17.8	17.6	16.8	16.6	15.8	15.9	16.0	17	42	17.9	10	51	12.8	5.1	2
18.3	17.8	17.2	17.0	16.2	15.1	15.9	14.8	15.9	16.1	13	56	18.9	10	01	13.7	5.2	3
18.0	18.0	18.0	17.8	17.0	15.9	16.0	16.1	16.1	16.2	15	59	18.1	9	30	12.9	5.2	4
18.9	19.0	18.2	17.8	17.8	16.9	16.5	16.1	16.4	16.4	15	00	19.1	10	02	12.7	6.4	5
19.7	18.9	17.9	17.8	18.0	17.8	16.0	15.0	15.9	16.3	15	35	19.8	10	04	10.7	9.1	6
19.8	19.2	18.7	18.1	17.9	17.2	16.9	16.5	16.3	16.5	15	30	19.9	10	10	12.8	7.1	7
19.9	19.9	19.1	18.2	17.8	17.2	17.0	15.6	14.7	16.2	15	36	20.1	9	10	07.9	12.2	8
20.7	21.8	20.9	19.0	16.6	14.8	15.8	16.7	16.7	16.1	16	42	22.8	8	18	10.0	12.8	9
20.1	19.8	19.1	18.1	17.1	16.5	16.8	16.7	16.8	16.6	15	12	20.3	10	21	09.1	11.2	10
20.5	20.0	18.9	17.7	17.2	17.0	15.9	15.0	15.9	16.8	15	59	20.7	9	20	12.8	7.9	11
19.2	18.9	18.0	18.0	17.1	16.8	17.0	16.8	16.8	16.5	15	25	19.3	10	10	10.7	8.6	12
19.3	19.1	18.4	17.7	17.3	17.0	16.8	16.7	16.6	16.7	15	57	19.3	9	56	12.8	6.5	13
19.2	18.8	18.0	17.9	17.8	17.2	16.8	16.8	16.8	16.8	14	42	19.9	10	00	13.0	6.9	14
20.0	18.8	18.8	17.8	16.9	16.9	16.8	16.8	16.8	16.8	14	50	20.2	10	09	11.9	8.3	15
18.9	17.9	17.0	17.6	17.7	17.0	15.6	15.2	14.9	16.7	14	13	20.0	9	12	14.6	5.4	16
18.8	17.2	17.3	19.0	18.8	18.1	17.4	17.4	17.0	17.0	13	30	19.3	2	09	12.8	6.5	17
20.0	19.0	18.0	18.2	18.2	17.3	16.9	16.6	16.7	17.0	14	30	20.4	7	54	13.6	6.8	18
18.8	18.2	17.6	17.0	18.0	17.5	16.8	16.8	16.8	16.5	14	17	19.8	8	44	13.0	6.8	19
20.7	18.9	18.0	17.8	17.9	15.9	15.7	15.9	15.9	16.7	14	25	21.0	9	12	11.6	9.4	20
20.7	19.8	18.7	17.1	17.3	17.1	17.0	16.8	16.7	16.7	14	57	20.9	9	09	10.9	10.0	21
21.8	19.9	18.1	17.6	17.7	16.9	16.7	16.7	16.8	16.9	14	29	22.2	9	46	11.6	10.6	22
20.2	19.5	18.2	17.4	17.4	17.0	16.9	17.0	17.0	16.6	15	15	20.3	10	12	11.8	8.5	23
21.4	21.8	19.8	20.0	20.1	19.0	17.6	16.8	17.0	17.4	15	56	22.1	9	24	13.1	9.0	24
20.0	19.7	17.9	15.7	16.2	16.6	16.8	16.8	16.0	16.5	15	51	20.3	9	36	13.1	7.2	25
18.9	18.2	18.0	18.1	18.0	17.4	17.2	16.9	17.0	17.0	15	32	18.9	10	39	13.8	5.1	26
18.6	18.9	18.8	18.4	18.1	17.8	17.2	17.1	17.0	17.0	17	03	19.0	10	12	13.5	5.5	27
18.0	18.7	18.2	18.4	18.1	17.8	17.3	17.2	17.1	16.6	17	00	18.7	9	41	12.0	6.7	28
19.8	19.8	19.8	18.7	19.1	17.9	18.0	17.9	17.1	17.7	16	56	19.8	10	20	14.8	5.0	29
19.9	19.4	18.6	17.7	17.9	17.8	17.7	17.6	16.9	17.2	13	54	21.6	5	31	13.0	8.6	30
20.9	20.0	18.8	17.7	16.1	14.9	16.6	15.9	17.1	16.7	14	31	21.0	7	15	13.0	8.0	31
19.5	19.1	18.3	17.9	17.6	17.0	16.7	16.5	16.5	16.6							7.6	
19.1	18.8	18.2	17.8	17.5	17.0	16.7	16.7	16.7	16.6							6.9	
19.0	18.7	18.3	17.7	17.3	17.0	16.9	16.8	16.8	16.6								

APRIL, 1916.

3° WEST PLUS TABULAR QUANTITIES.

21.1	19.2	18.3	17.9	17.4	16.9	17.1	17.1	17.1	17.1	15	07	21.2	8	48	12.8	8.4	1
23.1	20.2	18.1	17.8	18.0	17.9	17.0	17.1	17.1	17.5	14	37	24.0	9	39	11.1	12.9	2
21.3	18.9	18.0	18.0	17.9	17.0	16.9	17.1	17.1	17.3	10	14	23.2	8	57	10.8	12.4	3
20.8	19.1	18.1	19.9	17.9	17.8	17.4	17.2	17.2	17.4	13	49	21.0	10	09	14.0	7.0	4
(20.3)	19.8	18.6	18.6	18.1	17.8	17.7	17.1	17.2	16.7	(15	30)	20.3)	10	15	12.1	8.2	5
21.0	20.0	19.0	18.1	18.1	17.4	17.6	17.7	17.8	17.1	15	50	21.2	9	55	11.8	9.4	6
20.6	19.1	18.0	17.5	17.3	17.0	16.3	16.4	17.0	17.0	14	27	21.2	10	24	11.1	10.1	7
21.2	20.1	19.0	19.0	18.1	18.1	18.0	17.9	17.9	17.4	15	05	21.7	8	27	12.4	9.3	8
20.0	20.0	18.8	18.2	18.2	18.1	17.7	17.5	17.2	17.3	15	55	20.4	10	37	13.1	7.3	9
19.1	19.0	18.2	18.3	18.3	18.2	18.1	18.1	18.0	17.1	15	53	19.2	10	00	13.1	6.1	10
19.9	19.0	18.0	18.1	18.1	17.9	17.9	17.7	17.6	17.3	15	24	20.0	8	38	14.3	5.7	11
20.1	18.9	18.1	18.1	18.0	17.7	17.2	17.7	17.8	17.8	14	37	20.2	8	02	15.7	4.5	12
19.0	18.1	17.6	18.1	18.3	18.1	18.0	18.0	17.9	17.1	14	39	19.2	9	29	13.1	6.1	13
18.9	18.9	19.0	19.1	18.3	16.8	17.2	18.0	18.0	17.2	15	02	19.1	8	18	14.9	4.2	14
21.3	19.8	19.2	18.0	17.3	16.8	17.1	17.1	16.7	17.6	15	23	21.9	8	08	13.8	8.1	15
20.3	19.7	18.8	18.7	18.8	18.1	18.0	18.0	18.0	17.8	15	51	20.8	7	38	15.1	5.7	16
21.2	19.1	18.7	18.4	18.7	18.0	18.0	18.0	18.0	18.0	14	10	22.1	8	04	13.8	8.3	17
20.4	19.1	18.4	18.8	17.8	17.8	17.8	17.8	17.8	17.5	13	39	20.8	9	04	11.7	9.1	18
21.5	20.0	18.9	18.8	18.9	18.7	18.1	17.9	17.9	18.0	14	32	22.0	9	11	13.9	8.1	19
20.8	19.4	18.2	18.3	18.1	18.0	17.5	17.8	17.9	17.2	14	18	21.1	7	50	12.9	8.2	20
20.8	18.9	17.7	17.7	17.9	17.9	17.7	16.8	16.7	17.7	13	51	21.9	8	18	14.4	7.5	21
20.6	19.5	18.1	18.0	18.5	18.0	17.8	17.9	17.9	17.1	15	10	20.9	10	00	12.6	8.3	22
21.9	19.9	18.7	18.1	17.9	17.9	17.9	17.3	16.9	17.9	14	39	23.0	8	18	14.6	8.4	23
21.9	20.9	19.7	19.0	18.8	18.7	18.6	18.1	18.0	17.9	15	10	22.1	8	42	14.0	8.1	24
23.7	22.6	20.9	19.9	17.2	16.9	15.8	16.3	17.7	18.4	15	03	24.9	7	53	14.6	10.3	25
20.8	20.4	19.8	19.6	19.6	17.1	17.9	17.9	18.6	17.6	15	00	20.9	7	12	13.1	7.8	26
22.8	22.1	19.8	19.0	19.6	19.5	18.7	19.0	18.7	18.7	15	03	23.2	9	13	14.5	8.7	27
20.9	20.8	19.6	19.5	17.2	15.4	15.0	16.1	17.7	16.5	16	01	21.5	7	15	09.7	11.8	28
22.6	21.5	20.6	19.7	19.7	18.8	18.0	18.0	18.1	17.9	15	16	22.8	8	20	10.7	12.1	29
21.7	20.8	20.2	19.8	19.8	19.3	19.0	18.8	18.8	17.8	14	03	22.0	8	12	11.4	10.6	30
21.0	19.8	18.8	18.6	18.3	17.8	17.6	17.6	17.7	17.5						8.4		
21.0	19.4	18.3	18.3	18.2	17.9	17.7	17.5	17.4	17.6						8.1		
20.2	19.4	18.4	18.8	18.3	17.7	17.4	17.4	17.2	17.2								

MAY, 1916.

3° WEST PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	18.4	18.4	18.4	17.6	17.4	17.4	16.4	14.5	14.3	14.6	16.7	19.7	22.5	23.0	22.7
2	18.3	18.3	16.8	16.7	15.8	15.6	14.6	12.8	12.6	13.4	15.4	17.8	20.8	22.4	23.1
3	16.6	17.4	17.7	18.7	18.7	18.7	16.8	14.6	14.4	15.1	17.4	18.9	20.1	21.6	22.4
4*	18.0	17.7	17.7	18.0	17.3	15.4	14.3	14.8	15.7	16.6	18.4	19.6	21.0	19.6	20.6
5	18.6	17.9	17.6	18.4	18.5	17.8	16.7	15.4	13.5	13.1	13.6	15.9	18.7	21.7	22.7
6	16.7	17.7	17.8	17.6	19.5	19.3	20.1	19.4	16.5	15.4	15.5	15.7	17.0	19.0	20.5
7	18.0	17.9	18.0	18.0	17.7	17.7	16.8	15.7	14.8	14.8	16.5	17.6	19.2	20.8	21.4
8	17.7	17.7	17.6	17.7	17.8	17.7	16.8	15.6	15.5	15.3	14.9	14.9	15.6	17.5	19.5
9	17.8	18.0	19.7	18.4	17.8	17.7	17.4	16.4	16.5	17.5	18.5	18.8	18.8	19.5	19.7
10	18.6	18.5	18.5	18.5	17.6	16.9	16.4	16.4	16.8	17.9	19.4	19.7	19.7	19.7	20.3
11	17.6	19.5	18.4	17.3	17.1	16.5	16.5	15.8	14.6	17.2	18.6	19.5	19.6	19.5	19.6
12	17.6	17.8	18.4	17.7	17.6	17.2	16.2	13.6	13.3	14.4	15.5	17.4	18.8	19.7	20.7
13*	18.6	18.6	17.7	17.7	17.4	17.2	15.4	14.2	15.4	17.4	19.6	20.6	20.6	20.7	20.6
14*	18.5	18.4	17.7	18.6	18.5	17.3	16.0	14.3	13.8	15.5	17.7	19.3	19.6	19.5	19.6
15*	18.5	18.5	18.0	17.7	17.4	16.6	16.6	15.6	15.1	15.3	16.3	17.5	19.3	20.6	21.3
16	18.4	18.4	17.7	17.6	16.9	16.4	16.6	16.6	15.4	15.9	17.1	18.4	18.6	20.4	21.4
17	18.4	17.5	17.4	17.5	16.6	16.7	16.6	15.5	15.5	17.3	17.1	18.9	20.3	21.6	22.5
18*	18.5	18.5	18.5	18.6	18.5	17.7	16.7	14.4	13.5	14.8	16.2	17.4	17.6	19.4	20.5
19*	18.5	18.6	18.5	18.5	18.5	17.9	16.6	14.6	13.8	14.6	15.5	17.4	19.0	20.4	21.4
20	18.5	18.5	18.4	18.4	17.8	17.6	17.3	15.8	15.2	15.5	16.8	18.0	19.1	20.5	21.3
21	19.5	18.5	18.4	17.9	18.5	18.8	18.7	17.6	15.8	16.5	17.6	19.4	20.7	20.2	23.4
22	16.7	18.9	18.5	17.5	16.7	17.6	14.5	16.7	17.6	17.6	17.8	18.7	19.6	21.8	22.6
23	16.7	17.0	17.5	18.6	17.6	16.4	15.4	13.6	13.7	15.5	18.2	20.4	21.5	21.7	21.7
24	16.9	17.4	17.7	18.8	18.6	17.7	15.6	15.0	15.5	15.4	15.8	17.8	19.4	19.6	19.7
25*	18.5	18.9	18.2	17.8	17.7	17.4	15.6	14.6	15.2	17.4	19.4	20.4	21.4	21.8	21.4
26*	18.7	18.6	18.4	18.7	18.0	17.5	16.5	14.5	14.5	15.6	16.8	17.8	18.6	20.0	20.9
27*	18.7	18.1	18.1	18.5	17.7	17.5	16.7	14.8	13.7	14.3	14.9	15.6	16.4	17.1	18.5
28*	18.7	18.7	18.7	18.4	17.7	17.5	16.7	16.7	16.8	17.9	18.7	19.7	20.4	21.6	21.9
29	18.6	18.5	18.4	17.9	17.7	16.9	16.4	15.6	15.7	16.8	18.4	18.7	18.8	20.1	21.1
30	18.8	18.6	18.7	18.7	18.7	17.4	14.9	13.6	12.6	15.5	17.8	19.7	19.7	19.7	20.5
31	17.7	19.8	17.8	18.6	18.4	19.6	15.6	13.0	13.5	14.8	16.5	17.8	19.9	21.1	21.7
Mean.....	18.1	18.3	18.1	18.1	17.8	17.4	16.4	15.2	14.9	15.8	17.1	18.4	19.4	20.4	21.1
Mean*.....	18.5	18.5	18.2	18.2	17.9	17.2	16.1	14.8	14.8	15.9	17.4	18.5	19.4	20.1	20.7
Mean†.....	18.6	18.4	18.0	18.2	17.9	17.3	16.3	14.7	14.3	15.5	16.9	18.1	18.7	19.5	20.1

JUNE, 1916.

3° WEST PLUS TABULAR QUANTITIES.

1	19.4	19.8	19.5	20.0	18.0	17.5	15.4	13.6	13.7	14.9	16.6	17.8	19.5	21.7	22.6
2*	18.8	18.8	18.8	18.8	18.5	18.4	16.9	14.6	13.6	14.3	15.3	16.5	18.7	20.5	20.6
3*	19.0	18.8	19.3	18.7	17.8	17.6	15.6	13.9	13.6	15.6	17.5	18.7	19.9	20.8	21.8
4*	19.5	19.0	18.7	18.7	18.5	18.3	16.9	15.6	15.5	16.7	17.4	18.2	19.6	20.5	21.8
5*	19.3	18.8	18.7	18.7	18.7	17.9	16.7	15.0	14.7	17.5	18.6	19.7	19.7	19.9	20.5
6	18.5	18.5	18.4	18.7	18.6	18.0	16.7	15.4	14.6	15.6	16.5	18.5	19.7	20.0	20.6
7	18.7	18.7	18.4	18.4	17.7	17.2	15.5	13.7	13.7	15.3	16.5	18.5	19.1	19.7	20.5
8	17.8	17.8	17.5	17.7	17.6	16.9	16.4	15.3	16.3	17.5	18.4	20.0	20.5	21.3	21.7
9	19.3	18.6	18.7	18.6	19.0	18.6	16.4	14.5	14.7	15.8	18.4	20.5	21.6	21.8	21.8
10*	18.9	18.9	18.8	18.7	18.4	17.6	15.8	14.6	15.8	17.6	18.6	19.7	20.4	20.6	20.6
11*	18.7	18.7	18.5	18.0	17.7	17.4	15.6	14.5	14.3	15.5	16.5	17.7	18.5	19.4	19.5
12	18.7	18.6	18.9	18.5	17.7	17.6	17.3	15.7	14.6	15.7	17.6	19.4	19.7	20.0	19.6
13	18.5	18.0	18.7	18.6	19.1	18.6	17.5	15.7	15.8	16.9	18.8	20.9	21.8	21.8	21.7
14*	19.4	19.0	19.3	19.5	18.6	17.9	17.5	15.7	14.6	15.6	17.7	19.8	20.5	20.6	20.6
15*	19.5	19.9	19.1	18.7	19.5	18.7	17.5	17.1	17.7	18.7	19.4	19.7	20.0	20.3	21.4
16*	18.8	18.8	18.9	19.4	18.7	18.0	17.0	15.5	13.6	14.6	15.6	16.6	17.7	18.7	20.7
17*	19.0	19.0	19.6	19.5	19.0	18.6	16.8	15.1	14.2	14.8	15.5	16.5	17.6	18.7	19.8
18	19.4	19.0	18.9	18.8	18.6	17.9	16.8	15.5	13.9	16.7	18.5	19.5	20.5	21.4	22.7
19	18.6	18.7	18.9	18.9	18.6	17.7	16.4	14.7	14.6	15.7	16.7	18.6	20.5	22.6	23.7
20	17.9	17.4	16.7	17.9	17.9	16.9	14.6	13.8	13.8	14.6	15.8	17.8	20.2	21.4	21.8
21	18.6	18.6	19.7	19.1	18.6	17.8	17.5	15.7	14.5	14.6	16.5	18.5	21.0	23.6	24.7
22	19.5	19.0	18.9	18.9	18.7	18.3	17.1	15.6	14.7	15.3	16.7	18.8	19.8	20.7	21.8
23	17.9	18.4	18.8	18.6	17.7	16.8	15.4	15.6	15.5	15.9	16.8	18.0	19.8	20.8	21.0
24	19.1	19.1	19.0	18.9	18.7	18.0	17.0	15.6	15.8	18.5	19.6	19.8	20.7	21.9	22.6
25	19.7	19.1	18.9	19.1	18.3	17.1	16.1	15.3	15.7	17.0	19.6	20.9	21.8	21.4	21.7
26	19.7	19.8	19.9	19.7	18.9	18.6	16.7	14.1	13.9	15.2	17.2	19.9	20.8	21.0	21.8
27	20.0	19.7	19.7	19.3	18.9	18.2	17.1	15.4	14.9	16.2	17.9	20.0	21.0	20.7	19.9
28	19.2	19.2	20.0	19.9	18.9	18.1	16.6	16.5	16.6	17.7	19.0	20.2	21.0	21.1	20.7
29	19.9	19.9	20.0	19.8	19.1	19.0	17.8	15.0	13.8	14.0	16.0	18.8	20.7	21.0	21.1
30	20.0	20.0	19.8	20.2	21.3	20.0	18.3	16.0	16.0	16.2	18.0	19.3	20.2	20.1	21.2
Mean.....	19.0	18.9	19.0	18.9	18.6	18.0	16.6	15.1	14.8	16.0	17.4	19.0	20.1	20.8	21.4
Mean*.....	19.1	19.0	19.0	18.9	18.5	18.0	16.6	15.2	14.8	16.1	17.2	18.3	19.3	20.0	20.7
Mean†.....	19.0	19.0	19.0	18.9	18.6	18.1	16.6	15.1	14.9	16.2	17.3	18.2	19.3	20.2	21.0

* Ten least disturbed days.

† Five international quiet days.

MAY, 1916.

3° WEST PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum		Minimum		Range	Day
										<i>h</i>	<i>m</i>	<i>h</i>	<i>m</i>		
21.8	20.2	18.8	18.8	18.8	18.5	17.5	17.6	18.1	18.4	13	51	23.4	8	08	1
21.7	19.7	18.4	18.1	18.5	17.6	17.5	17.8	17.7	17.6	14	42	23.5	8	35	2
21.8	20.7	18.7	18.7	18.5	17.6	18.4	18.5	18.5	18.4	14	34	22.6	7	15	3
21.5	20.4	19.1	18.7	18.7	18.5	18.5	18.5	18.0	18.2	15	08	21.7	8	55	4
22.7	21.7	20.3	19.2	18.8	18.7	18.6	18.4	17.8	18.2	15	10	22.9	10	05	5
20.7	19.7	19.0	18.5	18.6	18.6	18.4	18.1	18.5	18.2	14	55	20.8	9	07	6
21.4	20.7	19.7	19.3	18.8	17.7	17.7	17.7	17.7	18.2	14	12	21.6	9	00	7
19.7	19.6	19.4	18.7	18.4	18.4	17.5	17.7	18.5	17.5	15	51	19.7	11	18	8
19.8	19.5	19.0	19.4	19.6	19.1	18.8	18.7	18.7	18.5	15	44	19.9	8	00	9
20.5	19.7	19.4	18.9	19.6	18.9	17.7	17.6	17.7	18.5	15	11	20.6	7	29	10
19.6	19.5	18.7	19.0	18.6	18.8	17.6	18.4	18.3	18.2	14	07	20.0	8	18	11
20.7	19.6	18.7	18.5	18.5	18.6	18.5	18.5	18.5	17.8	14	51	21.1	7	53	12
20.6	19.6	18.9	18.7	18.8	19.0	18.5	18.5	18.6	18.5	13	35	21.1	7	27	13
19.6	19.3	18.8	19.2	19.3	18.7	18.6	18.6	18.6	18.1	14	42	19.6	8	44	14
20.7	19.3	18.5	19.3	19.3	18.6	18.6	18.6	18.6	18.2	15	03	21.4	8	26	15
21.4	20.2	20.2	20.3	19.3	19.2	18.8	18.8	18.7	18.4	15	21	21.6	8	25	16
22.4	20.6	19.3	18.6	18.6	18.6	18.6	18.5	18.5	18.5	15	03	22.6	7	24	17
21.3	20.6	19.5	19.3	18.6	18.5	18.4	18.4	18.5	18.1	15	44	21.3	8	18	18
21.4	20.6	19.6	19.4	19.5	19.1	18.8	18.6	18.6	18.3	15	03	21.6	8	17	19
21.5	20.6	19.6	18.7	18.6	18.6	18.5	18.4	18.7	18.4	15	27	21.6	8	24	20
23.5	22.9	22.6	21.0	19.6	16.7	17.8	16.8	17.6	19.2	14	54	24.5	8	22	21
21.8	20.8	19.9	19.5	18.8	18.6	17.7	17.8	17.7	18.6	14	12	22.9	6	33	22
21.6	20.4	19.6	18.3	18.7	19.4	19.3	18.3	18.4	18.3	15	00	21.9	7	19	23
19.7	19.4	19.3	19.5	19.7	19.3	18.3	18.7	18.5	18.1	15	12	19.7	7	25	24
20.2	19.8	19.4	19.4	19.7	19.5	18.7	18.8	18.8	18.8	13	36	21.8	7	13	25
21.7	21.4	20.4	19.5	19.6	19.7	19.6	18.8	18.8	18.5	15	31	21.7	7	35	26
18.8	18.9	18.9	18.9	19.4	19.0	19.2	19.2	19.3	17.6	19	52	19.5	8	35	27
21.7	21.4	20.8	19.9	20.2	19.8	19.4	18.5	18.7	19.2	14	47	22.6	6	58	28
21.4	20.8	20.7	20.3	20.5	20.2	19.7	19.4	19.4	18.8	15	23	21.6	7	36	29
20.7	20.6	20.0	19.6	19.7	19.5	18.5	17.8	18.4	18.3	15	18	20.9	8	42	30
20.9	19.9	18.6	18.6	18.9	19.5	19.4	19.3	18.9	18.3	14	50	21.7	9	53	31
21.1	20.3	19.5	19.2	19.1	18.8	18.5	18.4	18.4	18.3					7.6	
20.8	20.1	19.4	19.2	19.3	19.0	18.8	18.6	18.6	18.3					7.2	
20.2	19.5	18.9	19.1	19.1	18.9	18.8	18.6	18.6	18.1						

JUNE, 1916.

3° WEST PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum		Minimum		Range	Day
										<i>h</i>	<i>m</i>	<i>h</i>	<i>m</i>		
21.7	20.7	19.5	18.8	19.1	19.2	18.9	18.7	18.8	18.6	14	41	22.6	7	50	1
20.7	19.7	18.7	18.7	19.0	19.4	19.4	19.5	19.5	18.2	14	02	20.7	8	05	2
21.7	19.9	18.7	18.7	19.1	19.5	19.5	19.6	19.6	18.5	15	15	21.8	7	52	3
21.7	20.5	19.4	18.8	19.1	19.2	19.4	19.5	19.5	18.8	15	16	22.4	8	08	4
20.5	20.1	19.7	19.4	19.6	18.8	18.7	18.7	18.6	18.7	15	22	20.7	7	51	5
20.7	20.7	20.7	19.7	19.4	19.4	18.4	18.6	19.0	18.5	16	00	20.8	8	14	6
20.8	20.7	20.6	19.7	18.1	18.5	18.9	19.3	18.8	18.2	15	53	20.9	7	44	7
21.5	20.5	20.0	19.9	19.8	19.7	19.0	19.0	18.7	18.8	14	57	22.3	7	29	8
21.4	20.5	19.7	19.7	19.7	19.6	19.0	18.8	18.8	19.0	14	30	21.9	7	30	9
20.6	20.5	19.8	19.6	19.7	19.7	19.6	19.5	18.9	18.9	14	09	20.6	7	40	10
19.9	20.0	20.3	20.2	20.5	19.7	19.4	19.1	19.0	18.3	19	08	20.5	8	31	11
19.4	18.7	18.7	19.0	19.1	18.7	18.9	19.3	19.5	18.4	13	10	20.7	8	25	12
20.7	19.8	19.3	19.4	19.4	18.9	18.9	19.1	19.3	19.0	13	40	22.4	8	04	13
20.7	20.5	20.6	19.9	19.7	19.7	19.7	19.6	19.6	19.0	15	22	20.8	8	29	14
21.5	20.7	19.7	19.7	19.8	19.1	19.1	19.2	19.4	19.4	15	29	21.6	6	52	15
21.7	21.4	20.6	19.8	19.7	19.6	19.5	19.5	19.4	18.5	15	39	21.7	8	23	16
20.6	19.9	19.4	19.4	19.7	19.5	19.6	19.6	19.7	18.4	15	48	21.6	8	44	17
22.7	22.4	20.6	19.5	19.8	19.6	19.7	18.8	18.7	19.2	15	14	23.0	8	16	18
24.4	22.8	21.4	19.8	20.0	18.7	18.7	18.6	18.7	19.1	15	18	24.6	8	22	19
22.9	22.4	21.6	20.3	19.7	19.4	19.4	19.4	19.3	18.5	15	58	23.4	8	08	20
24.9	23.7	22.4	21.4	20.6	20.6	19.7	19.7	19.7	19.7	15	23	25.0	8	49	21
22.1	22.0	21.6	20.5	19.7	19.5	18.7	18.8	18.6	19.0	15	39	22.5	8	41	22
21.0	20.4	19.6	19.7	19.9	19.7	19.7	19.5	19.7	18.6	14	58	21.3	6	51	23
22.7	21.8	20.8	20.6	20.6	20.1	20.4	20.0	19.9	19.6	14	46	22.8	7	37	24
20.7	19.8	19.8	20.0	20.1	19.9	19.9	19.8	18.9	19.2	12	40	21.9	7	43	25
21.9	21.2	21.1	20.2	20.6	20.6	20.5	20.1	20.0	19.3	10	39	22.0	7	33	26
19.8	19.9	20.0	20.2	20.2	20.1	20.0	19.2	19.3	19.1	12	57	21.0	8	08	27
20.1	19.2	19.0	19.1	19.7	19.1	19.2	19.6	19.8	19.1	13	21	21.3	7	03	28
21.3	21.3	21.1	19.8	20.2	20.4	20.7	20.2	20.1	19.2	16	54	21.8	8	44	29
22.0	20.2	20.2	19.4	20.1	19.1	18.3	18.2	19.0	19.3	15	06	22.1	8	04	30
21.4	20.7	20.2	19.7	19.7	19.5	19.4	19.3	19.3	18.9					7.8	
21.0	20.3	19.7	19.4	19.6	19.4	19.4	19.4	19.3	18.7					7.0	
21.2	20.4	19.5	19.3	19.5	19.4	19.2	19.2	19.2	18.7						

JULY, 1916.

3° WEST PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	18.4	19.9	21.2	21.9	19.4	19.5	20.5	19.4	16.3	15.4	16.5	18.2	19.9	19.8	20.4
2	20.5	20.4	20.3	19.6	19.3	18.5	17.4	16.4	16.5	18.2	19.7	20.5	20.9	21.5	21.8
3	19.9	20.6	19.8	19.6	18.8	18.1	17.8	16.9	16.7	18.8	19.9	20.9	21.6	21.5	21.5
4	20.0	19.9	19.7	18.9	17.9	17.9	17.7	15.9	16.2	17.0	17.9	19.1	20.6	21.9	22.7
5	20.3	19.1	19.0	19.3	19.0	19.1	17.8	16.6	16.6	17.7	19.2	21.0	21.8	22.0	22.5
6	19.2	19.3	20.0	19.3	19.3	19.9	19.6	17.9	16.9	16.9	18.4	20.1	20.8	21.9	22.0
7*†	20.0	20.0	19.7	19.9	19.2	19.1	18.2	17.2	16.4	16.8	17.1	18.2	19.2	20.3	21.2
8	20.2	20.0	19.3	19.3	19.2	19.0	18.1	17.0	16.0	17.3	18.2	20.3	21.5	20.5	24.5
9	19.4	18.8	19.0	21.2	20.5	20.5	20.3	17.2	17.0	17.1	17.3	19.2	20.9	21.8	22.8
10	19.7	19.6	19.5	19.6	20.4	21.4	19.5	16.7	15.4	16.4	17.5	19.4	20.2	20.3	21.4
11	20.6	19.5	19.6	20.3	19.7	19.3	17.4	16.5	16.2	16.5	17.5	19.5	20.2	20.6	20.7
12	19.7	19.6	19.7	19.4	19.5	19.6	17.6	16.4	16.5	17.6	19.0	20.7	21.8	22.5	22.7
13	19.7	19.6	20.5	20.9	19.8	19.6	18.5	17.6	17.8	19.7	19.4	20.6	21.5	21.6	21.7
14*	20.6	20.0	20.5	20.4	19.7	19.7	18.0	16.6	16.1	18.2	18.7	19.5	19.7	20.7	21.7
15*†	20.5	20.1	19.9	19.7	19.9	19.9	19.7	18.1	15.9	15.5	16.8	18.7	20.2	20.7	21.6
16	19.7	19.6	19.6	19.6	19.4	18.6	14.7	14.7	13.5	14.5	16.7	20.5	21.3	22.5	22.7
17	20.4	19.8	19.4	19.2	18.6	18.6	17.5	15.6	15.2	16.9	18.1	19.6	20.8	21.4	22.4
18	18.5	20.4	19.7	20.3	20.6	19.5	17.6	15.4	14.8	16.2	17.5	18.5	19.6	21.4	22.6
19	19.7	19.4	19.0	19.5	19.2	18.5	17.3	16.4	14.7	16.2	17.4	18.7	20.5	21.4	22.3
20*	19.5	19.6	20.3	19.7	19.6	19.3	18.4	17.6	17.7	19.5	19.6	19.6	19.4	19.4	19.6
21*	19.7	19.5	19.8	19.5	19.2	18.6	17.5	15.9	15.1	16.5	16.4	20.9	21.5	22.2	22.3
22*	19.7	19.7	19.9	19.8	19.7	19.5	18.3	16.4	15.7	17.1	18.5	20.3	20.9	21.3	21.7
23	19.5	18.6	19.6	18.9	20.2	20.0	19.3	18.3	17.4	17.4	17.5	20.2	20.3	20.6	21.5
24	19.7	20.5	19.7	19.5	19.6	20.4	18.8	16.5	16.0	16.3	16.5	17.6	19.4	20.5	21.5
25	20.0	20.0	19.8	19.6	19.4	19.3	18.1	15.4	14.7	17.3	19.2	20.5	21.3	21.3	21.2
26	20.2	19.7	19.6	20.2	20.3	19.3	17.4	15.4	14.2	15.3	17.2	19.2	20.2	21.4	(21.4)
27*†	20.2	20.2	20.2	20.1	19.5	19.3	17.5	16.5	17.3	18.4	19.7	21.5	21.6	22.2	22.3
28*†	20.1	19.6	19.7	20.3	19.7	19.1	17.8	15.5	15.2	15.7	18.0	19.2	19.8	20.2	20.6
29*†	20.2	20.2	20.3	20.3	19.5	19.3	18.3	16.5	15.5	18.4	18.5	20.5	21.8	22.4	22.3
30	20.1	20.2	20.1	20.2	20.2	20.0	18.7	17.1	15.5	16.3	18.1	18.5	19.4	20.3	21.4
31*	19.4	20.2	20.0	19.5	19.3	18.6	17.5	15.4	14.3	15.5	17.1	18.4	19.5	21.3	22.4
Mean.....	19.8	19.8	19.8	19.9	19.5	19.3	18.2	16.6	15.9	17.0	18.0	19.7	20.6	21.2	21.9
Mean*.....	20.0	19.9	20.0	19.9	19.5	19.2	18.1	16.6	15.9	17.2	18.0	19.7	20.4	21.1	21.6
Mean†.....	20.2	20.0	20.0	20.1	19.6	19.3	18.3	16.8	16.1	17.0	18.0	19.6	20.5	21.2	21.6

AUGUST, 1916.

3° WEST PLUS TABULAR QUANTITIES.

1*†	20.3	20.2	20.3	20.2	19.7	19.4	18.0	16.4	15.5	16.7	17.5	19.6	21.3	22.2	22.5
2	19.1	19.0	19.2	19.2	19.0	18.5	18.5	17.1	16.1	17.5	20.2	21.6	22.3	23.3	24.2
3*	20.1	20.2	20.1	20.0	19.7	19.7	18.5	16.8	15.7	16.1	17.2	18.5	19.5	20.6	22.3
4	20.4	20.4	20.3	20.4	20.1	19.5	17.5	15.8	16.3	17.6	18.6	19.7	20.8	21.9	22.5
5	20.2	20.6	21.3	20.9	20.1	19.6	18.0	16.0	15.6	16.9	18.5	20.3	21.1	21.9	22.4
6	19.5	22.2	20.3	20.4	22.4	20.7	19.6	16.9	15.2	16.8	18.8	20.2	21.6	22.2	22.4
7	19.6	20.3	20.5	21.3	21.4	21.4	19.5	17.3	16.2	17.2	18.6	19.3	22.1	22.4	22.5
8	19.6	20.1	21.2	20.7	20.4	21.7	19.6	17.3	16.6	18.1	18.6	20.3	21.1	21.4	20.7
9	20.4	20.7	20.7	20.1	19.7	19.5	18.1	16.6	15.6	16.6	17.9	19.3	21.4	21.9	22.1
10*	20.4	20.3	20.7	20.9	19.7	19.6	19.3	17.2	16.3	16.7	17.8	19.6	20.6	21.7	22.1
11	20.7	20.9	20.9	21.1	20.6	20.2	18.7	17.3	17.4	17.8	19.4	21.4	22.6	23.1	23.1
12	20.2	20.6	20.5	20.2	19.6	18.8	16.7	15.2	15.9	18.2	20.1	21.4	22.1	22.7	22.9
13	20.3	20.5	20.3	20.1	19.2	18.7	16.7	15.0	15.1	17.2	18.6	19.6	20.9	21.9	21.9
14*	20.4	19.8	20.1	20.2	19.4	18.7	16.9	14.9	15.9	18.1	21.9	23.6	23.4	23.4	23.7
15*†	20.8	20.8	20.8	20.8	20.6	20.0	17.7	15.3	15.4	16.8	18.8	20.6	21.2	21.8	22.8
16*†	20.8	20.6	20.5	20.6	19.9	19.3	17.2	15.0	15.0	16.7	19.7	21.8	22.9	23.0	22.9
17*†	20.5	20.5	20.5	20.6	19.9	19.2	17.3	15.7	15.8	17.3	19.6	21.3	22.5	23.2	24.7
18*	20.4	20.5	20.5	20.4	19.8	19.5	17.8	16.0	15.7	16.7	17.8	19.1	20.6	22.3	23.7
19	20.2	20.2	20.2	20.2	20.1	20.5	18.8	16.6	16.1	17.7	20.2	21.2	21.8	23.7	24.4
20	18.0	19.4	20.2	20.9	20.8	20.5	17.9	16.7	17.5	18.0	19.8	21.3	22.0	22.7	22.8
21	20.8	21.4	20.8	20.7	20.0	19.7	16.8	14.8	14.9	17.8	20.0	22.2	23.9	24.3	23.8
22	20.7	21.1	20.7	20.8	20.2	19.8	17.3	14.5	15.7	17.3	19.8	22.4	23.9	24.7	24.7
23	21.4	19.3	19.8	19.8	20.4	19.7	16.9	15.6	16.1	18.1	20.2	21.6	22.3	23.4	23.6
24	21.4	21.0	20.9	22.4	21.3	22.5	18.8	17.9	17.7	18.8	20.4	21.4	22.7	24.1	24.4
25*†	20.7	20.8	21.1	20.8	20.4	19.8	17.8	15.7	15.3	18.0	20.3	22.0	23.9	24.8	24.4
26	20.9	20.6	20.7	21.3	20.3	19.9	17.7	15.0	15.2	17.3	18.8	20.3	22.2	23.4	23.9
27	17.0	20.3	20.3	19.7	19.3	17.2	16.1	16.5	16.5	18.4	19.7	21.6	22.9	24.2	24.7
28	21.4	21.4	21.3	20.9	21.1	19.3	18.5	16.8	16.8	18.7	20.3	22.6	23.2	23.7	23.2
29	21.9	21.9	20.9	20.9	20.7	19.3	19.2	15.6	16.1	16.8	18.8	21.9	22.4	23.7	23.9
30	21.4	22.3	21.9	21.9	20.5	19.3	17.8	16.7	17.8	19.8	21.9	23.6	23.6	23.9	23.4
31*	21.1	20.3	20.3	20.3	20.4	19.8	17.8	17.7	19.0	20.7	22.0	23.6	24.5	24.6	24.2
Mean.....	20.3	20.6	20.6	20.6	20.2	19.7	18.0	16.2	16.1	17.6	19.4	21.1	22.2	23.0	23.3
Mean*.....	20.6	20.4	20.5	20.5	20.0	19.5	17.8	16.1	16.0	17.4	19.3	21.0	22.0	22.8	23.3
Mean†.....	20.6	20.6	20.6	20.6	20.1	19.5	17.6	15.6	15.4	17.1	19.2	21.1	22.4	23.0	23.5

* Ten least disturbed days.

† Five international quiet days.

JULY, 1916.

3° WEST PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
/	/	/	/	/	/	/	/	/	/	<i>h</i>	<i>m</i>	/	<i>h</i>	<i>m</i>	/	/	
20.5	20.0	19.1	19.4	20.1	20.3	20.4	20.4	20.4	19.5	3	36	22.4	9	22	15.2	7.2	1
21.5	20.3	20.0	20.4	20.6	20.6	20.3	20.0	19.9	19.8	14	27	22.3	7	30	15.7	6.6	2
21.6	21.5	21.1	21.8	21.7	20.9	20.7	19.8	20.5	20.1	12	51	21.8	7	34	15.7	6.1	3
22.8	22.2	21.5	20.8	21.0	20.7	20.1	19.9	19.8	19.7	14	10	22.8	7	09	14.6	8.2	4
22.7	22.8	21.7	21.2	21.0	20.4	20.1	20.0	19.2	20.0	15	30	22.9	8	27	15.7	7.2	5
22.0	21.5	21.1	20.1	20.2	20.1	20.1	20.0	20.0	19.9	14	50	22.2	9	00	16.7	5.5	6
21.9	21.9	21.3	21.0	20.3	20.4	20.3	20.3	20.2	19.6	16	42	21.9	9	13	16.3	5.6	7
26.2	26.0	24.7	23.1	22.2	21.2	20.3	20.3	19.4	20.6	17	03	26.4	8	09	15.4	11.0	8
22.6	22.3	21.5	21.3	21.4	20.3	20.4	20.2	20.2	20.1	14	48	23.0	7	53	15.2	7.8	9
22.4	22.2	22.3	21.6	21.5	21.0	19.5	19.6	19.6	19.9	15	48	22.6	8	28	15.2	7.4	10
20.7	20.3	20.0	19.8	20.4	20.4	20.3	20.2	19.9	19.4	0	15	21.4	8	09	15.7	5.7	11
22.7	22.2	21.7	20.8	20.1	19.7	19.9	20.5	19.9	20.0	15	15	22.8	7	29	15.5	7.3	12
21.6	21.0	20.5	20.2	19.9	19.8	20.5	20.4	19.9	20.1	15	39	21.8	7	54	17.0	4.8	13
21.7	21.2	20.4	20.5	20.4	20.4	20.4	20.4	20.4	19.8	15	15	21.7	7	54	15.6	6.1	14
22.6	22.5	21.4	20.4	20.2	20.5	20.4	20.4	20.3	19.8	14	43	22.7	8	17	15.3	7.4	15
22.7	21.9	21.3	20.8	20.6	20.5	20.5	20.2	20.3	19.4	14	36	22.9	8	15	13.2	9.7	16
22.7	22.3	21.4	20.8	20.7	19.9	18.7	19.3	19.5	19.5	15	53	22.7	7	45	14.3	8.4	17
22.6	22.6	21.8	20.8	21.4	21.4	20.7	20.0	19.9	19.7	15	55	22.6	7	20	14.5	8.1	18
22.5	22.2	21.5	20.7	20.6	19.8	19.6	19.6	19.7	19.4	15	18	22.6	8	06	14.4	8.2	19
20.6	20.6	20.5	20.5	20.6	20.6	20.6	20.5	20.4	19.7	16	08	20.6	7	49	17.2	3.4	20
22.3	21.4	20.7	20.5	20.7	20.5	20.4	20.2	20.2	19.6	14	47	22.3	8	01	14.7	7.6	21
22.5	22.5	22.5	22.1	21.4	21.5	20.4	19.6	19.6	20.0	15	56	22.6	8	24	15.6	7.0	22
22.3	21.8	21.5	21.7	21.2	20.5	20.4	18.9	18.5	19.8	15	14	22.3	8	45	16.4	5.9	23
22.4	21.7	21.3	20.4	20.3	19.4	20.4	20.3	20.2	19.5	15	33	22.4	7	31	15.2	7.2	24
21.3	21.5	21.3	20.5	20.3	19.6	19.6	19.6	19.9	19.6	15	56	21.5	8	05	14.4	7.1	25
(21.3)	21.1	19.6	19.4	20.2	20.3	20.3	20.1	20.1	19.3	(15 00)	(21.4)	8	18	13.8	7.6	26	
21.4	20.5	20.4	20.4	20.5	20.4	20.4	20.4	20.3	20.0	14	07	22.4	7	08	16.3	6.1	27
22.3	21.3	20.5	20.6	20.2	20.1	20.1	20.1	20.2	19.4	15	18	22.4	8	48	13.6	8.8	28
21.6	21.1	20.1	19.5	20.2	20.2	20.4	20.4	20.4	19.9	13	35	22.4	8	25	15.3	7.1	29
21.4	21.2	20.4	20.1	20.4	20.4	20.4	20.3	20.3	19.6	14	48	21.6	8	10	15.3	6.3	30
22.7	22.3	21.4	20.4	20.4	20.3	20.3	20.3	20.3	19.4	15	30	22.9	8	11	14.3	8.6	31
22.1	21.7	21.1	20.7	20.7	20.4	20.2	20.1	20.0	19.8							7.1	
22.0	21.5	20.9	20.6	20.5	20.5	20.4	20.3	20.2	19.7							6.8	
22.0	21.5	20.7	20.4	20.3	20.3	20.3	20.2	20.2	19.7								

AUGUST, 1916.

3° WEST PLUS TABULAR QUANTITIES.

22.6	21.9	21.0	20.7	20.6	20.8	20.3	20.1	19.3	19.9	15	05	22.6	8	31	15.4	7.2	1
24.4	23.6	22.6	21.8	21.1	21.5	19.9	20.1	20.1	20.4	14	48	24.4	8	06	14.7	9.7	2
22.9	22.3	21.5	21.2	20.9	20.6	20.2	20.1	20.3	19.8	15	35	22.9	8	31	15.3	7.6	3
22.5	21.7	21.3	21.1	20.9	20.5	20.3	19.9	19.7	20.0	15	00	22.5	7	38	15.1	7.4	4
22.4	22.0	21.6	21.3	20.5	20.2	20.4	18.5	19.0	20.0	15	28	22.4	8	11	14.9	7.5	5
22.3	21.7	21.3	21.3	20.8	19.6	19.5	19.7	20.5	20.2	4	05	23.7	8	31	14.0	9.7	6
22.6	22.5	21.7	21.4	21.3	21.2	20.1	20.2	20.1	20.4	14	53	22.8	8	09	15.6	7.2	7
20.7	20.7	20.7	20.6	19.6	19.6	19.8	20.1	20.3	20.0	5	47	22.3	7	24	16.3	6.0	8
22.0	21.7	21.4	20.9	20.5	20.4	20.5	20.2	20.4	19.9	14	37	22.2	8	30	15.6	6.6	9
21.9	20.7	20.5	20.7	20.7	20.3	20.4	20.5	20.7	20.0	14	50	22.1	8	12	16.1	6.0	10
22.8	22.1	21.7	21.8	21.2	20.9	20.8	20.5	20.2	20.7	14	32	23.7	7	51	16.7	7.0	11
22.8	22.4	21.8	21.6	21.4	20.6	20.2	20.4	20.4	20.3	14	35	28.4	7	44	14.5	13.9	12
21.5	20.8	20.8	20.8	20.5	20.6	20.8	20.5	20.5	19.7	14	03	22.1	7	45	14.3	7.8	13
23.8	22.8	21.9	21.6	21.1	20.8	20.8	20.8	20.8	20.6	17	00	23.9	7	43	13.6	10.3	14
22.9	22.5	21.8	20.9	20.8	20.8	20.8	20.8	20.8	20.3	15	50	23.0	7	45	14.5	8.5	15
22.8	22.1	21.7	20.8	20.8	20.8	20.6	20.6	20.5	20.3	12	45	23.5	7	45	14.5	9.0	16
24.6	23.1	22.1	21.3	20.9	20.6	20.5	20.0	20.2	20.5	14	36	24.8	7	37	15.1	9.7	17
23.7	22.5	21.8	21.8	21.6	21.4	21.0	20.4	20.3	20.2	14	50	23.8	7	55	15.2	8.6	18
23.8	22.5	22.0	21.3	20.8	19.9	18.9	18.2	19.6	20.4	13	56	24.9	7	54	15.6	9.3	19
22.8	21.9	21.4	21.2	21.0	20.8	21.0	20.7	20.7	20.4	15	00	23.0	7	00	15.7	7.3	20
22.9	21.0	(20.7)	(20.7)	(20.8)	(20.8)	(20.9)	(21.0)	21.1	(20.5)	13	45	24.3	7	29	13.9	10.4	21
25.2	22.3	21.9	20.7	20.7	20.2	20.2	20.2	20.9	20.7	16	09	25.7	7	45	13.8	11.9	22
22.5	22.3	22.2	19.5	20.7	20.6	20.6	21.0	21.4	20.4	14	03	23.9	7	23	14.7	9.2	23
25.0	23.8	21.8	20.9	20.9	20.6	20.6	20.6	20.8	21.3	15	40	25.5	8	15	17.5	8.0	24
23.7	22.1	21.6	21.6	21.5	21.4	21.2	20.9	20.9	20.9	13	30	24.9	8	20	14.7	10.2	25
23.1	23.3	23.5	22.8	21.9	20.0	19.7	20.9	19.8	20.5	15	45	23.9	7	50	14.5	9.4	26
24.4	23.0	23.5	22.2	21.7	21.8	21.3	21.1	20.9	20.6	14	45	24.9	0	53	15.0	9.9	27
22.3	21.3	21.5	21.9	21.9	21.7	21.2	20.7	21.5	21.0	13	45	23.9	7	45	16.3	7.6	28
23.7	22.6	22.2	21.9	21.6	21.6	21.5	21.4	21.2	20.9	14	30	24.0	7	15	15.1	8.9	29
22.8	22.1	21.0	20.7	20.9	20.4	21.5	21.5	21.1	21.2	13	40	24.0	7	40	16.2	7.8	30
23.0	21.9	21.0	21.5	21.4	21.4	21.3	20.9	21.0	21.2	13	10	24.8	7	20	17.0	7.8	31
23.0	22.2	21.7	21.2	21.0	20.7	20.5	20.4	20.5	20.4							8.6	
23.2	22.2	21.5	21.2	21.0	20.9	20.7	20.5	20.5	20.4							8.5	
23.3	22.3	21.6	21.1	20.9	20.7	20.6	20.6	20.6	20.4								

SEPTEMBER, 1916.

3° WEST PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1*†	21.1	21.0	20.9	20.9	20.3	18.5	17.8	15.8	16.0	18.1	21.2	22.9	23.9	24.7	24.5
2	20.6	20.9	20.9	20.6	20.2	20.2	18.3	15.5	15.5	17.8	20.3	22.4	23.2	24.4	24.1
3	20.6	21.9	21.9	22.9	21.9	20.9	20.6	18.4	16.2	17.1	18.2	19.2	20.9	21.9	23.2
4	20.4	21.7	22.4	20.9	21.2	22.3	20.2	18.8	17.3	17.5	18.4	19.7	21.4	23.8	24.6
5	19.6	22.0	21.5	20.3	22.9	20.9	19.7	18.4	17.6	18.1	18.8	20.2	21.3	22.5	23.4
6	21.0	21.0	21.0	21.2	20.6	20.1	18.9	17.7	17.4	17.9	19.7	21.3	22.7	23.0	22.9
7*	21.0	21.0	20.7	20.5	21.4	20.1	18.5	17.1	17.7	18.9	20.7	22.0	23.0	23.7	23.5
8*	21.1	21.1	21.1	21.1	20.6	20.3	21.1	20.6	19.0	19.5	21.0	21.8	23.2	23.3	23.5
9	21.2	21.1	21.1	20.9	20.1	20.0	19.9	18.2	18.6	19.8	21.1	22.8	23.8	24.6	24.1
10	21.2	21.0	21.0	21.3	20.6	19.9	17.8	17.5	17.6	18.1	19.1	21.2	23.2	24.5	24.4
11	20.9	20.3	20.6	20.6	19.9	19.2	18.1	17.3	17.4	19.9	22.3	23.2	24.7	25.2	25.2
12	21.7	20.2	21.5	20.2	19.2	18.5	17.7	16.7	16.6	18.2	20.1	22.6	24.6	25.3	24.8
13*	20.8	21.2	21.6	22.0	20.8	20.2	18.1	16.8	17.0	19.0	20.9	23.7	25.3	25.6	24.7
14*	21.1	21.2	20.9	20.8	20.2	19.8	18.6	17.1	17.5	18.6	20.0	22.1	23.4	23.9	23.6
15	21.8	21.7	22.2	21.8	21.2	21.1	20.6	18.8	17.2	17.9	19.1	21.0	22.9	24.9	25.0
16	20.5	21.3	21.1	21.6	21.7	21.1	18.9	16.9	15.9	16.8	18.6	21.3	23.2	24.8	24.8
17	20.6	21.6	21.1	20.2	20.1	20.1	19.6	18.8	19.8	21.7	22.6	23.2	23.7	23.9	24.0
18*	21.1	21.2	21.6	21.3	20.1	20.0	18.3	17.6	18.3	19.6	20.0	21.2	22.8	23.3	23.1
19*†	21.6	21.8	21.6	21.6	21.2	19.9	19.1	18.7	18.6	18.9	20.7	22.1	22.4	23.2	23.5
20*†	21.4	21.5	21.4	21.6	21.1	20.9	20.3	18.9	18.6	18.6	19.0	19.7	20.6	21.1	21.6
21†	21.0	20.8	21.1	21.0	21.2	20.6	19.6	19.1	18.8	19.2	19.8	21.0	21.1	21.6	21.6
22	20.6	20.6	19.5	19.4	20.9	19.6	19.4	18.9	19.0	19.5	20.4	21.3	21.6	22.2	21.6
23	20.1	20.4	20.9	20.5	19.5	19.2	19.0	18.1	19.3	20.6	21.3	22.3	23.2	22.8	22.6
24	21.1	21.1	20.8	21.3	21.2	20.3	19.6	18.6	18.6	19.2	20.1	20.4	22.3	22.7	22.5
25	20.6	20.5	20.4	20.4	19.8	19.8	19.7	18.7	18.6	19.3	20.6	21.6	22.5	22.9	22.6
26	21.4	21.4	21.2	21.1	20.6	20.5	19.7	19.4	18.8	19.6	20.6	21.6	22.6	23.5	23.6
27	21.3	21.1	21.1	20.8	22.0	20.9	20.3	19.3	18.5	19.5	21.0	22.4	23.0	23.2	23.2
28*	21.2	20.9	21.2	21.2	21.9	20.9	20.4	19.1	18.9	19.4	20.9	22.2	22.5	22.9	22.8
29*†	21.4	21.5	21.7	21.6	21.5	20.3	20.6	19.4	19.0	19.4	19.6	21.3	23.3	23.3	23.4
30	21.5	21.7	21.9	21.8	21.4	21.5	20.9	19.9	21.7	21.2	22.3	23.9	24.0	23.9	23.9
Mean.....	21.0	21.2	21.2	21.0	20.8	20.3	19.4	18.2	18.0	19.0	20.3	21.7	22.9	23.6	23.5
Mean*.....	21.2	21.2	21.3	21.3	20.8	20.1	19.3	18.1	18.1	19.0	20.4	21.9	23.0	23.5	23.4
Mean†.....	21.3	21.3	21.3	21.3	21.1	20.0	19.5	18.4	18.2	18.8	20.1	21.4	22.3	22.8	22.9

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3° WEST PLUS TABULAR QUANTITIES.

1	20.6	20.8	21.1	21.2	21.2	21.0	20.6	19.8	19.8	20.6	21.1	22.1	22.5	23.2	23.1
2	21.6	22.4	22.1	23.2	21.6	21.3	20.9	20.1	19.2	19.6	20.6	21.7	22.8	23.9	23.8
3	21.5	21.7	21.9	21.4	21.1	21.8	22.0	20.5	19.1	19.4	20.6	21.4	21.8	22.2	22.6
4	21.2	21.1	21.0	20.9	20.8	20.6	20.3	19.5	18.9	19.9	21.3	21.8	22.5	22.7	22.9
5	21.5	21.6	21.7	21.6	21.1	21.1	20.6	19.7	19.2	19.3	20.2	20.4	20.6	21.2	22.2
6	20.7	20.8	21.0	21.5	21.0	20.6	22.2	22.1	21.0	21.6	22.0	23.5	23.4	22.9	22.1
7	21.1	21.0	21.9	23.5	22.2	21.8	21.1	20.0	18.9	19.5	20.2	20.6	21.0	21.7	22.0
8	22.1	21.7	22.2	22.1	22.6	22.5	21.0	20.6	20.8	20.7	21.2	22.3	21.9	22.0	22.0
9	22.1	22.0	21.3	21.0	21.3	21.5	21.0	19.9	19.8	20.5	22.0	23.1	23.4	23.1	23.3
10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
11	21.6	21.8	21.5	21.0	20.7	21.1	20.3	19.6	18.8	20.2	21.9	23.9	23.9	23.8	23.8
12	21.2	21.3	21.4	21.5	21.1	21.1	20.8	20.8	19.0	19.9	21.2	22.4	22.5	22.9	23.2
13	21.4	21.6	21.8	22.3	22.1	21.8	21.7	20.3	19.8	20.2	21.4	21.9	22.4	22.9	23.1
14	22.2	22.2	22.4	22.3	22.8	22.1	22.0	21.3	19.8	19.4	19.8	20.9	21.6	22.1	22.8
15	22.1	22.4	22.2	22.3	21.8	21.8	21.7	20.7	20.2	20.0	20.1	21.3	21.9	21.8	22.9
16	22.7	22.8	23.0	22.9	22.2	21.9	21.7	21.0	19.8	18.9	19.0	19.5	20.1	20.9	21.7
17	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
18	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
19	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
21	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
22	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
23	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
24	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
25	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
26	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
27	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
28	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
29	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
30	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
31	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Mean.....	21.6	21.7	21.8	21.9	21.6	21.5	21.2	20.4	19.6	20.0	20.8	21.8	22.2	22.5	22.8
Mean*.....
Mean†.....

* Ten least disturbed days.

† Five international quiet days.

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3° WEST PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
										<i>h</i>	<i>m</i>	<i>s</i>	<i>h</i>	<i>m</i>	<i>s</i>		
23.9	22.5	21.5	20.9	21.3	21.0	20.9	20.9	20.9	20.9	13	35	24.7	7	40	14.8	9.9	1
23.4	22.7	21.5	21.2	21.1	20.3	19.8	20.1	21.3	20.7	13	30	24.5	8	06	14.7	9.8	2
23.1	22.1	21.9	21.5	21.1	20.6	20.5	20.3	20.9	20.7	15	10	23.8	8	45	15.8	8.0	3
24.9	23.7	20.5	19.6	20.2	18.3	18.8	19.8	20.4	20.7	15	08	25.0	17	54	16.3	8.7	4
23.5	22.6	21.9	21.2	21.2	21.2	21.0	20.6	20.9	20.9	4	18	24.4	8	48	17.5	6.9	5
22.4	22.1	22.0	21.6	21.3	19.4	21.0	21.1	21.0	20.8	14	00	23.1	7	42	17.0	6.1	6
23.3	22.4	21.8	21.5	21.7	21.5	21.4	21.1	21.0	21.1	13	48	24.2	8	13	16.9	7.3	7
22.3	21.5	21.4	21.8	21.7	21.6	21.5	21.4	21.4	21.4	13	20	23.8	8	25	19.0	4.8	8
23.1	22.0	21.6	21.6	21.6	21.7	21.6	21.3	21.1	21.4	13	00	24.6	8	35	17.7	6.9	9
23.2	22.2	21.4	21.5	20.1	20.8	21.2	21.2	20.5	20.9	14	17	25.1	7	52	17.3	7.8	10
23.2	22.2	21.2	20.2	20.5	18.6	19.0	20.1	19.8	20.8	13	51	26.1	7	03	16.1	10.0	11
23.3	21.0	20.9	20.8	20.2	20.1	20.2	20.8	21.1	20.7	13	30	25.9	7	15	16.0	9.9	12
23.0	22.1	20.8	20.6	20.5	20.6	20.6	20.7	20.9	21.1	13	00	25.7	8	15	16.4	9.3	13
22.9	22.2	21.9	21.6	21.6	21.9	21.9	21.7	21.7	21.1	13	30	24.1	8	00	16.6	7.5	14
24.7	23.3	22.3	21.6	21.3	19.9	20.1	20.4	20.4	21.3	15	00	25.0	8	55	17.2	7.8	15
24.4	22.7	21.9	21.4	21.4	19.3	19.8	20.0	20.6	20.8	14	10	25.0	9	05	15.9	9.1	16
23.0	20.8	20.1	19.9	20.6	20.7	20.6	20.6	21.1	21.2	14	00	24.3	7	20	18.3	6.0	17
22.3	21.8	21.3	21.6	21.5	21.6	21.4	21.6	21.5	21.0	13	30	23.5	7	35	17.3	6.2	18
23.1	21.9	21.7	21.6	21.9	21.3	21.3	21.4	21.6	21.3	14	30	23.7	7	05	18.1	5.6	19
21.6	20.9	21.1	21.3	21.5	21.4	21.2	21.2	21.4	20.7	14	50	21.8	9	10	18.6	3.2	20
21.6	21.3	21.6	21.7	21.6	21.4	21.3	21.2	20.9	20.8	4	40	21.8	7	55	18.8	3.0	21
21.6	21.6	22.1	21.9	21.6	21.2	20.6	20.5	20.5	20.7	13	40	22.3	7	50	18.9	3.4	22
23.0	21.3	21.4	21.5	21.5	21.4	20.6	21.3	21.2	21.0	14	10	23.3	8	00	17.6	5.7	23
21.8	21.8	22.1	21.6	21.3	20.8	20.7	20.6	20.8	20.9	13	25	22.8	7	55	18.2	4.6	24
22.2	21.1	21.0	21.3	21.3	21.2	21.2	21.4	21.4	20.8	12	00	22.9	8	00	18.6	4.3	25
23.6	22.2	22.0	21.9	20.2	20.6	20.8	21.3	21.6	21.2	15	30	23.7	7	55	18.3	5.4	26
22.5	21.5	21.1	21.5	21.5	21.5	21.5	21.5	21.5	21.3	15	00	23.6	8	05	18.2	5.4	27
22.4	21.7	21.7	21.9	21.8	21.4	21.4	21.7	21.6	21.3	14	30	23.0	8	00	18.4	4.6	28
23.1	22.3	22.2	22.3	22.2	21.5	21.5	21.6	21.6	21.5	14	08	23.6	7	55	19.1	4.5	29
23.6	23.2	21.7	20.7	21.2	20.7	20.7	20.9	20.2	21.8	12	15	24.3	7	30	19.5	4.8	30
23.0	22.0	21.5	21.3	21.2	20.8	20.8	20.9	21.0	21.0							8.6	
22.8	21.9	21.5	21.5	21.6	21.4	21.3	21.3	21.4	21.1							6.3	
22.7	21.8	21.6	21.6	21.7	21.4	21.3	21.4	21.4	21.1								

NOVEMBER, 1916.

3° WEST PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2
3
4
5
6
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10
11	23.5	23.4	23.5	23.2	23.5	22.5	21.9	20.1	18.9	18.7	19.1	20.9	22.9	24.9	25.6
12	22.1	22.4	23.1	23.6	23.7	24.1	24.8	22.1	20.6	19.5	21.4	22.1	22.2	23.7	24.3
13	21.4	22.0	22.0	21.2	20.9	21.2	21.8	22.1	21.4	20.9	20.8	21.8	22.3	24.9	24.8
14*†	22.0	22.1	22.1	22.0	22.0	21.8	22.1	21.2	19.3	17.9	19.4	21.3	23.2	25.4	26.3
15*†	21.7	22.6	22.3	22.2	22.4	22.8	22.3	21.0	19.7	18.2	18.5	20.1	21.8	23.8	24.5
16*	22.1	22.7	22.7	22.7	22.1	22.2	22.4	21.8	20.3	19.8	19.9	22.0	23.8	24.5	24.8
17*	22.0	22.5	23.4	23.2	22.4	22.0	22.0	21.2	20.1	19.5	19.8	20.9	23.2	24.5	25.0
18	21.5	21.4	22.4	22.1	22.7	22.6	21.6	22.2	21.0	19.1	19.0	20.2	21.8	23.7	24.2
19*	21.6	22.1	22.7	22.8	22.3	22.1	22.1	22.0	20.3	19.7	20.3	22.0	23.5	24.9	25.4
20*†	22.4	22.7	22.9	22.9	22.6	22.1	22.1	22.4	20.7	19.9	19.9	20.8	22.2	23.2	23.9
21*†	21.7	22.3	22.7	22.7	22.6	22.6	22.7	22.2	20.9	19.9	20.2	21.6	23.1	24.1	24.0
22*	22.0	22.2	22.5	22.6	24.0	22.5	22.1	22.0	20.9	21.1	22.0	22.7	23.8	24.2	24.0
23*	22.1	22.5	22.7	22.7	22.9	22.8	23.3	22.5	21.4	20.9	21.1	22.0	22.8	23.2	24.2
24*†	22.5	22.6	22.9	22.8	22.7	22.5	22.7	22.6	21.5	21.3	21.5	22.1	22.9	23.8	23.8
25	23.0	23.3	23.3	23.3	22.8	22.8	22.8	22.4	21.3	20.2	20.6	21.0	22.5	23.5	24.1
26	22.8	23.6	24.6	23.6	23.1	22.4	22.6	21.8	20.2	19.9	20.4	22.3	23.4	24.3	24.7
27	21.8	21.7	21.9	22.3	22.3	22.1	22.4	22.3	20.5	19.7	19.9	20.4	22.3	24.3	24.4
28	23.3	23.1	23.3	23.5	23.1	22.8	22.9	22.4	20.4	19.4	19.4	20.8	23.4	25.3	25.9
29	22.9	23.3	24.0	24.3	23.3	23.0	23.2	23.0	21.3	20.3	21.0	22.0	23.7	25.2	26.0
30	23.0	23.9	23.8	24.2	24.0	23.4	23.8	23.7	21.7	20.7	20.7	21.7	23.2	24.7	25.2
Mean.....	22.3	22.6	22.9	22.9	22.8	22.5	22.6	22.0	20.6	19.8	20.2	21.4	22.9	24.3	24.8
Mean*.....	22.0	22.4	22.7	22.7	22.6	22.3	22.4	21.9	20.5	19.8	20.3	21.6	23.0	24.2	24.6
Mean†.....	22.1	22.5	22.6	22.5	22.5	22.4	22.4	21.9	20.4	19.4	19.9	21.2	22.6	24.1	24.5

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3° WEST PLUS TABULAR QUANTITIES.

1	23.0	23.3	23.9	23.4	25.9	24.1	24.5	25.1	(23.7)	(22.8)	22.2	20.4	21.3	24.7	26.2
2	22.8	23.1	23.5	24.1	23.7	24.2	25.9	24.2	22.2	20.2	19.7	21.2	22.3	23.9	25.2
3	23.8	23.9	23.8	24.2	25.9	24.3	24.1	24.0	21.9	21.2	22.1	22.2	23.2	24.3	25.2
4	22.9	23.7	24.2	23.9	23.6	23.9	23.9	23.0	20.4	19.0	19.4	20.7	21.8	23.2	24.5
5	....	....	....	....	....	....	....	....	....	....	21.0	21.5	23.1	24.7	25.2
6*†	23.3	23.5	24.2	24.2	23.9	23.5	23.6	23.2	21.4	20.2	19.6	20.2	21.5	23.2	24.4
7	23.5	23.6	23.6	23.3	23.2	22.7	20.9	22.2	20.3	21.4	22.2	22.3	(23.5)	(23.9)	(24.0)
8*	23.5	24.3	23.2	23.2	22.1	22.7	22.7	22.4	21.2	19.7	21.2	22.9	24.9	24.8	24.8
9*	23.4	23.6	23.7	23.6	23.3	22.8	22.3	23.1	21.2	21.0	21.2	22.5	23.7	24.3	24.6
10†	23.4	23.7	24.0	23.9	23.2	23.0	23.1	22.8	20.4	17.6	16.7	18.4	21.5	23.3	24.0
11	23.6	23.7	24.0	24.0	23.8	23.2	23.0	23.0	21.2	20.5	19.7	20.9	22.7	23.6	23.5
12	22.4	23.0	23.1	23.2	22.0	23.6	22.8	22.4	20.8	19.7	19.2	20.4	24.2	26.7	26.7
13	22.3	23.0	23.7	24.0	23.2	23.4	23.2	23.1	21.1	19.7	20.2	22.2	24.7	26.0	25.8
14	23.2	23.6	24.5	24.2	23.4	23.1	23.2	23.9	22.8	21.2	20.4	22.2	25.0	27.2	27.7
15	23.2	22.8	23.6	23.9	23.4	23.4	23.2	23.1	22.4	20.8	18.7	19.1	22.1	25.3	26.2
16	23.1	23.3	23.1	23.1	23.4	23.6	24.2	24.4	21.2	19.0	18.8	21.6	25.9	28.3	28.0
17	23.4	24.1	23.4	23.8	23.4	23.4	23.2	23.3	21.3	19.7	19.0	21.2	23.8	25.3	25.1
18	23.1	23.2	23.3	23.4	23.3	23.4	23.6	23.3	21.1	19.0	20.1	23.9	24.6	24.8	25.6
19*	22.9	23.1	23.3	23.7	23.6	23.1	23.1	23.1	20.9	18.9	19.9	23.1	23.9	24.2	25.2
20*	22.6	22.9	23.0	23.1	22.3	23.1	23.2	22.9	20.6	19.0	21.1	23.4	24.1	24.1	24.1
21*†	23.1	23.1	23.1	23.1	23.2	23.7	23.1	22.6	21.2	21.1	23.1	24.9	25.2	25.1	25.0
22*†	23.3	23.4	23.6	23.7	23.2	23.2	23.1	23.0	21.5	21.1	22.6	25.2	25.8	25.6	25.1
23*†	23.4	23.6	23.7	23.8	23.5	23.3	23.1	23.0	21.4	20.3	21.1	23.4	24.4	24.3	23.6
24*	23.2	23.4	23.4	23.6	23.6	23.2	23.1	23.0	21.5	21.0	21.6	24.0	25.5	25.4	25.1
25	23.7	23.7	23.9	23.9	23.1	23.0	22.7	22.8	21.9	21.8	22.2	23.9	25.4	25.6	25.3
26*	23.4	23.3	23.4	23.2	22.9	22.8	22.7	22.4	21.4	21.0	22.1	23.9	24.8	25.2	24.9
27	23.1	23.7	23.1	24.0	23.2	23.6	23.4	22.9	22.2	20.9	21.7	24.0	28.2	27.3	25.9
28	24.4	24.1	23.7	24.0	23.7	23.8	23.1	22.0	21.1	21.1	21.3	22.2	24.1	25.2	25.2
29	23.8	24.3	24.1	25.4	23.8	23.1	22.9	22.1	20.8	20.7	22.1	23.7	24.6	25.3	25.2
30	23.5	24.5	24.7	24.1	24.2	24.6	25.1	24.1	22.2	21.6	22.1	23.5	24.6	25.6	25.6
31	23.5	23.7	23.8	24.3	23.7	23.5	23.3	23.1	22.0	21.3	21.6	23.6	25.4	26.2	25.6
Mean.....	23.3	23.5	23.7	23.8	23.5	23.4	23.3	23.1	21.4	20.4	20.8	22.4	24.1	25.1	25.2
Mean*.....	23.2	23.4	23.5	23.5	23.2	23.1	23.0	22.9	21.2	20.3	21.4	23.4	24.4	24.6	24.7
Mean†.....	23.3	23.5	23.7	23.7	23.4	23.3	23.2	22.9	21.2	20.1	20.6	22.4	23.7	24.3	24.4

* Ten least disturbed days.

† Five international quiet days; November 15 used instead of November 1.

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3° WEST PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
										<i>h</i>	<i>m</i>	'	<i>h</i>	<i>m</i>	'	'	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..	..	.....	..	..	.....	.....	1
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..	..	.....	..	..	.....	.....	2
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..	..	.....	..	..	.....	.....	3
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..	..	.....	..	..	.....	.....	4
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..	..	.....	..	..	.....	.....	5
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..	..	.....	..	..	.....	.....	6
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..	..	.....	..	..	.....	.....	7
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..	..	.....	..	..	.....	.....	8
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..	..	.....	..	..	.....	.....	9
.....	24.0	23.6	23.0	22.6	22.2	22.5	22.7	22.7	.....	..	..	.....	..	..	.....	.....	10
25.0	24.0	23.3	22.8	21.3	21.6	21.6	21.5	21.8	22.3	14	25	25.8	9	10	18.0	7.8	11
25.2	23.9	23.2	22.5	22.5	22.2	22.1	22.0	21.6	22.7	15	29	26.2	9	15	17.8	8.4	12
24.1	23.2	23.0	22.6	22.4	22.0	22.0	22.0	22.1	22.2	14	30	24.9	10	05	20.0	4.9	13
26.2	24.5	23.0	22.6	22.2	22.0	21.0	21.4	22.4	22.2	15	32	26.3	9	37	17.8	8.5	14
24.0	23.7	23.3	22.6	22.0	22.0	22.0	22.0	22.0	22.0	14	09	24.7	9	46	17.8	6.9	15
24.9	23.5	23.0	22.9	22.1	21.8	21.8	21.5	21.8	22.4	14	58	24.8	10	06	19.3	5.5	16
24.2	23.1	23.0	23.2	22.2	21.6	21.6	21.7	21.8	22.3	14	21	25.0	8	57	19.0	6.0	17
24.2	23.5	23.0	23.0	22.4	21.8	21.8	22.0	22.0	22.0	14	05	24.2	10	18	18.4	5.8	18
24.8	23.6	23.1	22.8	22.6	22.1	22.0	22.2	22.3	22.5	14	25	25.8	9	33	19.3	6.5	19
23.9	23.8	22.9	22.5	22.3	22.1	22.0	22.1	22.3	22.3	15	14	24.0	9	50	19.6	4.4	20
23.4	23.3	23.1	23.0	22.8	22.3	22.2	22.4	22.0	22.4	13	25	24.3	9	50	19.8	4.5	21
23.5	23.0	23.0	22.8	22.3	22.2	22.4	22.4	22.0	22.6	4	36	24.5	9	00	20.8	3.7	22
24.7	25.0	24.2	23.3	23.2	22.7	22.3	22.4	22.6	22.8	16	03	25.2	10	08	20.6	4.6	23
23.5	23.4	23.3	23.3	23.2	22.5	22.3	22.3	22.9	22.7	13	20	24.0	9	50	20.9	3.1	24
24.2	24.2	24.1	22.9	23.3	22.2	22.3	22.3	22.7	22.7	14	23	24.3	9	35	20.0	4.3	25
24.6	23.3	22.9	22.8	22.8	22.8	20.4	21.9	22.1	22.6	2	30	24.9	9	45	19.5	5.4	26
24.1	23.3	23.1	23.3	22.3	20.9	20.3	21.3	22.3	22.0	14	01	25.0	9	50	19.0	6.0	27
25.7	24.1	23.4	23.4	22.5	22.6	22.4	22.4	22.9	22.8	14	55	26.1	9	50	19.0	7.1	28
26.1	24.2	23.8	23.2	22.2	22.2	22.2	22.1	23.1	23.2	15	10	26.1	9	38	20.0	6.1	29
25.3	24.8	24.2	23.9	23.6	22.5	22.2	21.7	23.0	23.3	15	30	25.4	10	08	19.9	5.5	30
24.6	23.8	23.3	23.0	22.5	22.1	21.8	22.0	22.3	22.5							5.8	
24.3	23.7	23.2	22.9	22.5	22.1	21.9	22.0	22.2	22.4							5.4	
24.2	23.7	23.1	22.8	22.5	22.2	21.9	22.0	22.3	22.3								

DECEMBER, 1916.

3° WEST PLUS TABULAR QUANTITIES.

25.2	25.1	23.7	22.9	22.5	21.4	21.8	21.9	23.1	23.4	14	40	26.3	11	36	19.5	6.8	1
25.3	24.2	23.7	23.6	22.9	20.9	22.0	22.3	22.7	23.1	6	27	26.3	10	00	18.6	7.7	2
25.7	25.2	23.2	23.3	23.9	23.1	22.9	22.8	22.5	23.6	4	17	26.0	9	06	20.2	5.8	3
24.6	24.9	24.7	(24.2)	(23.7)	(23.2)	(22.8)	(22.5)	22.3	23.0	16	00	24.8	10	06	18.3	6.5	4
25.3	24.8	24.2	23.8	23.2	22.7	22.3	22.7	23.2	.....	15	15	25.3	..	..	.....	.....	5
24.4	24.4	24.1	23.9	23.8	23.2	23.2	23.2	23.4	23.1	15	10	24.6	10	15	18.9	5.7	6
(23.9)	23.9	24.0	23.3	23.3	23.2	23.2	23.2	23.3	23.0	17	15	24.1	9	24	20.0	4.1	7
24.6	24.3	23.6	23.6	23.3	23.2	23.1	23.3	23.6	23.2	15	00	24.9	9	12	19.4	5.5	8
24.4	24.7	24.2	23.7	23.7	22.7	23.1	23.2	23.7	23.2	16	00	24.6	8	55	20.4	4.2	9
23.8	23.2	23.4	23.6	23.2	22.5	23.0	23.1	23.3	22.4	14	30	23.8	10	32	16.1	7.7	10
23.5	23.8	23.2	23.0	23.0	22.7	22.9	22.3	22.2	22.8	14	03	24.2	10	03	19.6	4.6	11
26.0	24.6	23.9	24.0	23.8	22.7	22.2	22.2	21.7	22.9	13	42	26.8	10	25	18.4	8.4	12
25.7	24.5	24.2	23.5	23.2	22.7	22.7	23.2	23.2	23.3	13	54	26.2	9	26	18.8	7.4	13
26.8	24.2	23.0	23.4	23.3	23.0	22.7	22.7	22.9	23.6	14	32	27.8	10	32	19.7	8.1	14
26.5	24.4	24.8	24.5	23.9	23.3	22.2	23.1	23.2	23.2	15	30	26.8	10	42	17.8	9.0	15
26.5	25.0	24.2	23.9	23.4	22.9	23.1	23.1	23.4	23.6	13	40	28.4	9	50	18.1	10.3	16
25.4	24.7	24.1	23.9	23.8	23.1	22.6	22.7	23.1	23.2	15	18	25.5	10	11	18.1	7.4	17
25.0	24.1	24.1	24.1	23.8	23.2	23.1	23.2	23.2	23.3	13	10	25.7	10	00	18.0	7.7	18
25.4	25.1	24.1	24.0	23.6	23.1	23.1	23.0	23.1	23.2	15	30	25.5	9	57	18.2	7.3	19
22.9	23.3	23.9	24.0	23.7	23.4	22.8	23.1	23.2	22.9	14	40	24.1	9	24	18.4	5.7	20
24.6	23.9	24.0	23.9	23.8	23.3	23.3	23.3	23.5	23.5	12	40	24.8	9	10	20.3	4.5	21
24.6	23.9	23.8	23.6	23.3	23.1	23.1	23.2	23.4	23.6	11	54	26.0	9	58	20.5	5.5	22
23.1	22.9	23.1	23.1	23.0	22.9	23.0	23.1	23.1	23.0	13	00	24.5	9	57	19.5	5.0	23
23.7	22.4	22.5	22.8	23.1	22.7	22.8	23.1	23.8	23.2	13	40	25.6	9	25	20.3	5.3	24
24.8	24.2	23.6	23.1	23.0	22.8	23.1	23.3	23.3	23.5	12	58	25.6	9	20	21.2	4.4	25
24.8	24.5	24.1	23.7	23.0	22.4	22.7	22.4	22.6	23.2	13	30	25.0	9	30	20.2	4.8	26
24.5	23.8	23.6	23.2	23.1	22.9	22.7	23.1	23.6	23.7	12	30	27.9	9	58	19.8	8.1	27
24.1	22.2	20.1	22.8	22.9	21.7	22.1	22.6	23.1	22.9	13	38	25.2	9	50	20.5	4.7	28
25.1	23.9	23.7	23.1	22.7	22.4	22.2	22.6	23.1	23.4	3	35	25.6	9	00	19.7	5.9	29
25.3	24.1	23.2	23.7	23.1	22.2	22.1	22.6	23.2	23.7	15	00	25.7	9	49	20.9	4.8	30
24.9	24.1	23.6	23.5	23.2	22.8	22.2	22.1	22.8	23.5	13	20	26.2	9	37	20.7	5.5	31
24.8	24.1	23.6	23.6	23.3	22.8	22.7	22.8	23.1	23.2							6.3	
24.2	23.9	23.7	23.6	23.4	23.0	23.0	23.1	23.3	23.2							5.5	
24.1	23.7	23.7	23.6	23.4	23.0	22.9	23.1	23.4	23.1								

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28000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
2*	337	327	326	332	333	332	325	323	318	312	309	313	317	312	309
3†	322	323	325	328	329	330	333	339	335	335	333	331	330	333	332
4	329	330	330	332	333	334	335	340	338	334	337	337	335	333	330
5	347	345	340	344	344	345	343	350	353	347	341	337	340	342	342
6	337	333	335	326	329	332	336	343	344	331	320	334	322	317	309
7	326	323	325	327	328	330	332	335	338	334	329	333	329	329	327
8	332	333	329	329	330	336	333	335	333	327	308	302	306	312	317
9	329	331	331	334	336	335	337	341	340	339	340	332	323	320	323
10*	334	333	333	337	337	337	337	338	334	333	330	315	314	324	333
11*	334	334	334	337	340	337	338	341	337	333	337	346	345	336	335
12	335	335	337	338	339	340	343	344	340	336	341	344	341	341	339
13	338	338	340	342	346	349	346	350	349	345	347	353	353	349	344
14	330	330	329	331	332	334	334	339	339	339	342	348	343	338	344
15	323	323	325	330	329	330	334	338	342	343	346	349	332	323	324
16*	319	319	324	331	331	332	333	337	339	336	339	342	344	339	334
17*	338	339	339	341	342	341	341	343	339	336	339	348	353	351	350
18*	341	341	342	345	344	346	346	348	344	337	338	346	354	356	352
19*	344	345	347	346	346	347	344	348	338	336	334	331	330	329	333
20	342	343	343	344	344	344	344	349	353	358	355	349	348	350	350
21*	343	345	345	349	349	350	350	355	356	351	339	327	325	325	337
22	343	346	347	349	351	353	353	354	359	358	356	353	351	351	353
23*	346	347	349	349	348	352	352	354	350	346	340	332	326	326	334
24	335	336	338	342	344	345	345	349	348	345	347	347	341	343	347
25	342	343	343	345	345	347	346	347	341	335	334	332	330	331	336
26	326	332	330	333	340	342	343	341	341	338	342	342	322	316	329
27	328	335	334	334	332	333	333	339	344	347	347	338	330	328	331
28	326	325	327	331	340	345	342	344	356	363	363	362	344	333	333
29	322	325	328	332	335	335	338	340	339	336	326	322	323	318	317
30	336	336	336	335	337	339	338	347	357	365	368	365	358	354	353
31*	331	331	333	335	332	332	334	340	346	346	352	358	353	342	339
Mean.....	334	334	335	337	338	339	340	343	343	341	340	340	336	334	335
Mean*.....	337	338	339	341	342	342	343	345	344	342	344	346	345	344	343
Mean†.....	334	335	337	338	338	338	339	343	343	343	343	342	340	338	337

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28000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	336	336	335	335	337	338	342	353	362	360	361	369	372	373	363
2*	337	337	333	329	335	338	341	341	342	340	343	348	350	343	337
3†	333	335	335	337	337	337	341	345	345	346	350	353	348	343	341
4	340	340	340	341	342	345	348	351	353	356	357	358	353	344	337
5	323	321	329	328	331	334	335	337	344	342	338	340	333	324	319
6*	327	328	328	331	331	335	339	345	345	342	341	335	326	324	318
7†	329	330	330	332	332	333	333	338	339	341	345	345	345	340	334
8	329	327	328	326	326	327	333	346	348	351	338	332	322	313	304
9	303	301	302	303	305	305	306	311	315	317	316	312	312	313	312
10*	305	306	309	307	305	304	306	310	311	316	317	316	314	311	313
11*	308	307	308	310	312	313	315	320	325	330	331	329	325	318	315
12*	320	319	313	310	315	317	320	322	326	330	331	329	318	313	311
13*	315	314	315	315	317	317	319	329	334	337	342	344	340	326	314
14
15
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22	315	315	316	319	324	329	330	339	351	348	350	346	345	342	341
23	317	321	324	327	325	325	322	332	343	349	353	349	336	312	296
24	324	324	320	321	324	325	325	335	334	339	339	331	311	299	300
25	316	313	313	312	314	317	316	328	340	347	348	341	334	340	336
26	315	325	323	321	316	317	313	324	335	338	344	347	338	330	332
27*	326	324	323	323	330	325	325	332	340	347	352	355	356	356	349
28*	328	326	330	329	329	329	330	333	334	342	349	352	352	343	331
Mean.....	322	322	323	323	324	326	327	334	338	341	342	342	336	330	325
Mean*.....	323	323	322	322	324	325	327	332	334	337	340	341	337	332	326
Mean†.....	325	324	325	326	328	327	329	334	337	341	345	347	345	340	334

* Ten least disturbed days.

† Five international quiet days; February 3, 27, and 28 used instead of February 14, 16, and 17.

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28000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
308	307	309	313	317	319	322	322	323	319	0	07	339	15	35	306	33	1
330	328	326	328	328	328	327	327	327	329	7	57	339	0	30	321	18	2
335	335	334	338	340	340	338	338	343	335	23	39	349	0	00	325	24	3
338	337	340	340	337	333	333	336	333	341	8	03	354	23	19	328	26	4
315	316	321	324	320	320	320	317	328	326	7	06	347	13	27	302	45	5
327	332	333	328	326	325	319	316	320	328	8	57	338	22	16	312	26	6
320	324	326	327	330	326	326	323	327	325	5	30	338	11	40	300	38	7
330	332	333	334	335	333	333	335	336	333	10	25	341	13	46	317	24	8
337	337	335	338	338	337	333	332	334	333	19	54	338	12	09	310	28	9
338	337	336	335	335	334	334	335	336	337	11	56	347	0	51	333	14	10
337	335	336	337	338	338	337	338	338	339	11	15	344	9	35	335	9	11
345	340	322	307	309	311	324	330	332	338	11	29	354	18	31	305	49	12
353	350	333	327	326	323	321	319	321	334	15	57	354	22	49	317	37	13
324	324	324	320	322	324	323	326	324	329	11	25	349	18	33	317	32	14
336	339	340	339	337	339	339	339	339	335	12	39	345	0	21	317	28	15
340	337	337	335	334	333	335	338	339	340	12	50	355	20	00	332	23	16
353	345	348	349	347	344	344	342	343	346	13	12	357	9	42	336	21	17
336	337	340	340	342	342	343	343	343	340	5	07	347	13	20	329	34	18
350	344	343	345	346	346	346	345	344	347	9	50	359	0	20	342	17	19
341	337	344	347	347	345	350	345	345	344	7	58	356	13	15	342	34	20
353	349	350	348	345	343	346	348	347	350	9	02	359	20	30	343	16	21
341	344	347	346	342	338	336	337	339	343	7	48	355	13	18	324	31	22
346	341	344	346	346	344	343	343	343	344	11	09	349	0	05	333	16	23
347	343	342	344	348	349	342	339	326	341	20	12	351	23	40	316	35	24
332	318	320	325	328	327	328	330	330	331	6	14	348	13	12	308	40	25
324	322	329	330	332	333	330	328	329	333	12	22	349	15	13	318	31	26
332	328	327	329	327	325	321	329	326	337	10	00	363	21	36	319	44	27
323	329	335	331	333	335	336	338	338	331	7	26	340	14	14	314	26	28
353	347	339	336	335	335	332	335	335	344	10	40	369	22	23	324	45	29
342	339	336	331	336	336	335	335	335	339	11	23	358	0	11	330	28	30
333	330	333	336	336	335	335	336	338	340	11	48	361	16	00	330	31	31
336	334	334	334	334	334	333	333	334	336							29	
342	338	339	340	340	339	339	340	340	341							18	
337	335	335	337	338	334	334	334	334	338								

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351	334	325	332	344	347	346	342	340	347	13	06	374	17	19	321	53	1
330	328	330	332	334	334	334	334	335	337	12	31	350	3	15	326	24	2
336	334	332	334	334	334	333	334	340	339	11	40	353	17	08	330	23	3
339	337	339	340	337	331	323	318	325	341	11	43	358	22	19	314	44	4
318	318	327	329	329	328	327	326	327	329	8	38	347	1	00	316	31	5
318	319	323	328	331	330	330	329	330	331	8	06	345	14	33	317	28	6
334	332	329	329	332	332	330	330	332	334	11	32	346	0	00	328	18	7
295	295	299	302	308	302	294	296	303	318	9	40	355	21	24	292	63	8
309	297	295	296	297	301	303	305	305	306	9	27	318	18	57	292	26	9
314	309	308	308	309	306	307	309	310	310	10	18	318	4	00	303	15	10
315	312	312	312	313	320	323	324	322	317	10	37	331	1	04	307	24	11
311	311	310	311	312	313	315	315	316	317	10	51	332	3	17	308	24	12
312	311	310	310	310	311	312	312	313	320	11	26	344	19	10	309	35	13
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	14
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	15
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	16
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	18
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	19
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	20
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	21
342	316	297	301	313	311	323	320	315	327	9	09	358	18	00	291	67	22
301	303	308	315	320	318	320	322	331	324	10	28	356	14	56	294	62	23
309	308	307	303	294	308	317	320	323	318	9	55	342	19	15	293	49	24
325	312	313	312	314	316	315	324	320	324	11	14	350	18	58	309	41	25
326	324	313	307	306	308	314	316	323	323	11	51	351	19	08	304	47	26
339	329	327	329	328	330	332	330	327	335	13	34	357	3	20	322	35	27
325	320	318	321	321	322	321	320	324	330	12	34	352	17	51	317	35	28
322	317	316	318	319	320	321	321	323	326							37	
323	320	320	321	322	323	324	324	325	327							26	
330	325	324	325	326	322	323	324	325	330								

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28000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1*	321	325	324	323	323	325	325	329	336	344	349	355	351	345	336
2*†	323	322	322	323	325	326	324	329	335	338	340	343	336	327	316
3*†	328	330	328	328	328	330	330	337	341	343	347	351	351	352	348
4*	331	334	334	336	335	340	341	344	348	354	361	366	364	355	346
5*	320	321	323	326	331	333	334	340	347	348	351	355	357	355	349
6	334	336	337	339	338	339	337	337	343	344	349	364	376	373	369
7	332	326	340	323	316	317	316	320	324	331	338	342	347	348	347
8	284	292	297	300	298	316	308	308	318	325	331	327	308	316	306
9	281	276	282	287	294	294	297	305	326	335	342	344	337	328	319
10	305	294	294	294	296	300	302	311	319	325	328	328	323	321	312
11	313	314	313	310	318	319	314	321	325	330	339	343	347	351	343
12	305	307	309	314	312	314	317	318	321	331	336	345	346	343	334
13*	312	327	313	313	316	318	316	320	321	325	326	326	326	325	322
14*†	318	318	319	319	320	318	317	319	319	324	335	343	348	345	338
15*†	320	316	316	319	320	324	328	331	330	337	342	346	342	334	329
16	306	303	305	308	311	311	314	319	327	338	348	356	362	355	347
17	291	296	299	305	306	306	308	308	303	309	313	316	314	314	305
18	304	310	313	317	317	320	320	324	332	336	339	338	328	328	322
19	286	287	287	292	294	297	302	311	317	324	325	327	322	316	312
20	292	299	308	300	304	310	320	334	340	341	355	366	354	332	309
21	309	304	310	308	298	305	311	316	322	333	338	338	317	300	277
22	290	291	287	290	290	292	293	298	312	319	316	315	306	306	294
23	301	304	300	300	302	308	316	308	310	312	310	309	305	301	302
24	303	303	307	302	302	308	307	312	315	319	326	331	330	327	322
25	285	292	294	299	304	304	311	317	324	343	344	345	332	316	308
26	287	289	294	298	298	307	302	299	308	311	318	324	323	317	307
27*	299	301	306	302	302	302	304	308	313	322	331	337	333	327	319
28†	296	299	298	299	298	302	302	304	310	320	326	332	327	319	311
29	300	301	302	305	306	305	308	318	328	339	346	347	338	331	324
30	298	288	293	293	294	300	300	306	312	323	332	337	336	333	329
31*	296	298	299	303	303	301	298	301	317	327	339	344	337	329	323
Mean.....	305	307	308	309	310	313	314	318	324	331	336	340	336	331	323
Mean*.....	317	319	318	319	320	322	322	326	331	336	342	347	344	339	333
Mean†.....	317	317	317	318	318	320	320	324	327	332	338	343	341	335	328

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1	298	299	299	300	299	303	304	308	311	320	333	344	347	335	324
2	303	302	302	301	301	306	310	319	326	333	339	344	339	325	316
3	306	307	299	302	302	299	295	295	300	308	316	324	325	316	308
4	297	300	301	302	305	305	307	314	318	318	317	315	312	305	305
5*	302	304	305	308	307	309	308	312	316	321	325	332	328	317	316
6	306	304	308	312	315	315	315	319	322	328	331	333	330	326	325
7	313	312	309	311	312	315	315	315	315	328	340	348	347	337	331
8	304	302	304	308	315	314	312	315	316	342	346	360	341	308	306
9	297	297	299	300	298	298	297	297	298	315	320	327	318	313	312
10†	304	305	304	306	306	307	307	306	309	315	324	329	320	318	317
11*†	313	312	313	318	317	313	316	312	314	327	338	342	332	318	313
12*†	311	313	316	317	316	316	315	315	309	313	321	331	328	319	309
13*†	315	315	316	317	317	317	317	320	323	327	335	341	339	335	330
14*	318	318	320	321	320	319	319	314	317	331	346	347	338	332	336
15	316	315	315	320	317	318	318	320	325	331	334	337	339	329	324
16	298	308	308	299	300	302	303	303	297	302	310	308	302	296	296
17	285	286	290	295	296	299	299	298	302	310	310	311	315	313	319
18	303	294	292	305	298	294	296	295	294	291	310	324	325	329	330
19	301	291	287	283	287	285	288	292	293	304	317	323	322	316	302
20	288	287	288	288	289	302	297	298	302	304	298	298	293	293	293
21	294	297	308	312	302	302	303	310	309	308	311	308	303	305	299
22	293	299	303	307	307	314	316	325	337	342	340	333	326	319	302
23	298	299	304	304	305	303	301	307	310	316	316	315	306	301	298
24*	309	309	313	313	309	309	308	313	320	321	324	326	316	308	308
25*	314	310	305	308	309	310	309	309	308	312	322	326	323	317	314
26	322	313	312	325	312	306	304	301	311	312	310	291	270	255	253
27*	301	303	308	308	303	301	297	300	307	314	317	317	312	306	307
28*†	304	303	303	303	303	303	304	303	301	308	314	315	316	314	314
29*	307	306	306	306	304	305	307	306	309	310	315	316	315	315	317
30	300	305	302	301	304	308	308	309	318	339	340	334	329	331	335
Mean.....	304	304	305	307	306	307	306	308	311	318	324	327	322	315	312
Mean*.....	309	309	310	312	310	310	310	310	312	318	326	329	325	318	316
Mean†.....	309	310	310	312	312	311	312	311	311	318	326	332	327	321	317

* Ten least disturbed days.

† Five international quiet days.

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16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
329	322	318	320	322	318	321	319	322	329	11	55	356	20	56	317	39	1
313	313	313	316	318	321	323	324	326	325	11	31	343	16	00	312	31	2
343	336	334	332	333	331	331	330	331	336	13	40	354	0	00	327	27	3
344	337	334	330	324	317	318	308	314	338	12	16	366	22	35	304	62	4
343	332	329	330	331	333	332	333	338	337	13	13	359	0	00	316	43	5
361	343	343	344	345	343	334	329	333	345	12	16	377	22	48	327	50	6
334	309	286	276	250	256	266	280	281	313	14	03	350	19	17	245	105	7
300	286	282	285	288	276	287	290	281	300	11	04	336	20	27	274	62	8
311	305	290	289	289	288	289	294	303	304	11	10	345	0	01	274	71	9
307	301	302	307	316	316	314	313	315	310	11	30	328	2	19	290	38	10
328	327	314	314	315	314	313	308	307	322	13	34	353	23	48	302	51	11
325	309	315	316	315	309	313	314	314	320	12	31	348	0	00	304	44	12
319	312	315	315	316	318	318	319	319	319	12	32	327	3	47	309	18	13
332	323	318	313	316	317	318	321	322	324	12	31	349	18	18	313	36	14
321	313	312	318	318	316	312	311	313	324	11	36	346	22	42	308	38	15
340	324	307	291	278	277	281	280	287	316	12	40	363	21	00	272	91	16
362	301	302	302	300	300	300	300	301	304	11	40	317	0	00	289	28	17
322	313	312	312	309	308	304	294	299	318	10	29	341	22	45	288	53	18
302	295	293	283	288	284	289	292	296	301	11	24	328	18	40	280	48	19
313	304	296	305	306	302	302	306	310	317	11	46	370	0	31	290	80	20
282	273	268	270	283	284	299	289	299	301	11	00	338	18	08	259	79	21
295	291	288	274	283	297	294	294	296	296	9	36	321	19	13	271	50	22
302	299	293	289	293	299	304	304	305	303	6	14	321	18	12	285	36	23
302	283	286	287	293	292	296	290	303	306	12	38	331	22	49	279	52	24
307	299	307	303	303	294	294	285	285	308	11	14	347	22	09	280	67	25
298	302	309	307	307	302	292	287	297	303	12	33	324	0	00	285	39	26
309	299	297	299	302	301	307	302	301	309	11	33	337	0	00	296	41	27
305	299	296	302	303	298	298	299	302	306	11	48	332	2	52	295	37	28
320	312	312	306	301	304	308	308	309	316	11	43	347	23	15	299	48	29
319	299	284	280	283	285	286	293	296	304	12	13	337	18	07	279	58	30
314	305	303	302	304	302	302	299	299	310	11	18	345	0	00	295	50	31
317	309	305	304	304	303	305	304	307	315							51	
327	319	317	318	318	317	318	317	318	325							38	
323	317	315	316	318	315	317	317	318	323								

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318	307	306	303	301	300	301	306	309	311	12	22	352	0	25	297	55	1
322	320	308	298	299	288	293	300	303	312	11	11	345	20	27	283	62	2
313	305	301	294	293	294	294	298	300	304	12	01	328	19	11	286	42	3
307	301	295	293	297	297	300	301	303	305	9	39	319	18	19	292	27	4
317	311	310	314	315	316	311	307	305	313	12	06	332	0	05	299	33	5
322	315	315	324	325	319	314	315	313	319	11	25	334	0	39	304	30	6
343	338	324	316	316	291	285	292	296	319	15	57	369	20	46	280	89	7
306	311	306	302	296	296	294	294	293	312	11	44	365	23	09	292	73	8
308	304	300	303	304	303	304	306	306	305	11	41	328	0	00	292	36	9
316	309	307	308	309	309	315	315	315	312	11	18	329	0	00	304	25	10
311	305	310	310	311	310	311	312	313	316	11	40	342	17	00	305	37	11
304	297	300	306	311	313	313	316	317	314	12	00	333	16	30	296	37	12
324	315	313	314	315	318	319	319	321	322	11	33	341	17	43	309	32	13
331	321	321	312	312	312	314	317	318	323	11	31	349	19	07	307	42	14
309	291	287	270	271	287	295	299	299	311	12	39	343	19	03	259	84	15
288	277	266	265	258	257	263	266	277	290	10	20	312	20	12	254	58	16
320	311	310	311	308	301	298	301	304	304	14	19	321	0	00	280	41	17
327	316	316	312	316	316	307	283	289	307	14	27	331	23	37	278	53	18
297	281	259	260	258	256	261	278	295	289	11	45	323	17	31	253	70	19
286	282	286	291	296	296	301	299	297	294	10	18	308	15	31	281	27	20
283	289	296	296	278	262	281	286	291	297	2	45	317	20	16	259	58	21
297	262	267	268	288	279	283	299	301	304	9	08	344	16	57	252	92	22
294	294	297	300	301	305	306	304	305	304	9	57	320	16	15	289	31	23
304	299	303	309	309	309	307	309	309	311	11	07	327	16	15	288	39	24
308	301	301	302	303	304	314	314	314	311	11	48	328	16	30	301	27	25
248	256	264	278	289	292	299	299	303	293	3	39	331	15	02	237	94	26
308	304	304	305	306	303	304	304	304	306	11	01	317	6	57	293	24	27
310	300	299	299	298	301	307	308	308	306	12	32	317	19	45	296	21	28
315	304	300	299	303	304	304	302	302	307	14	53	318	18	09	297	21	29
327	314	307	305	306	310	307	310	311	315	10	06	343	0	00	300	43	30
309	301	299	299	300	298	300	302	304	308							47	
313	306	306	307	308	309	310	311	311	313							31	
313	305	306	307	309	308	309	311	311	313								

MAY, 1915.

28000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	γ 309	γ 309	γ 304	γ 307	γ 308	γ 307	γ 309	γ 310	γ 314	γ 337	γ 347	γ 346	γ 344	γ 343	γ 336
2	276	271	277	282	292	294	303	314	324	325	325	318	317	319	302
3	297	301	314	310	309	308	307	308	305	305	303	301	296	304	312
4*†	305	313	307	307	307	308	311	311	316	319	327	331	324	314	303
5	313	313	314	314	314	316	320	330	334	335	339	334	328	318	314
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18*†	298	297	302	303	293	293	293	290	285	283	289	293	294	293	295
19	298	297	298	297	296	292	293	292	294	296	301	303	308	303	296
20	279	294	286	287	290	290	287	290	290	292	293	295	298	296	288
21*	298	300	303	302	296	296	295	293	292	288	286	288	284	287	283
22*	294	299	304	305	300	289	291	292	293	292	288	286	282	278	281
23*†	292	292	291	293	293	294	292	290	291	293	293	293	292	291	290
24	287	287	288	289	288	288	294	(301)	308	319	329	324	312	299	284
25*	274	275	278	276	277	280	284	284	286	290	302	315	322	312	297
26	289	290	292	291	287	289	294	298	299	303	317	321	321	313	305
27	284	273	279	287	282	305	302	298	301	302	307	316	302	297	303
28*†	291	292	291	292	293	296	300	303	302	304	307	311	314	315	315
29*†	298	298	297	298	298	299	299	297	294	300	305	314	314	314	314
30*	300	303	300	300	298	298	294	291	284	284	285	291	297	302	302
31*	293	296	294	290	293	299	297	291	292	303	304	306	300	301	298
Mean.....	292	294	295	295	294	296	297	297	298	302	306	308	307	304	300
Mean*.....	294	296	297	297	295	295	296	294	294	296	299	303	302	301	298
Mean†.....	297	298	298	299	297	298	299	298	298	300	304	308	308	305	303

JUNE, 1915.

28000 γ PLUS TABULAR QUANTITIES.

1*	290	290	291	292	291	290	288	287	283	283	291	301	304	298	293
2*	289	292	289	291	288	287	290	294	293	299	311	320	318	309	307
3*†	287	287	288	290	290	289	290	288	283	286	293	300	305	305	299
4*†	294	293	292	294	293	292	292	291	290	293	298	304	300	291	285
5*	291	291	291	293	295	295	296	293	295	298	301	304	304	300	298
6	296	294	298	299	299	298	300	299	295	293	289	292	296	297	295
7	305	305	304	305	306	306	312	316	317	316	315	314	309	305	303
8	301	304	306	299	289	290	298	304	305	300	293	297	297	296	296
9	293	286	286	282	282	283	286	288	288	290	291	293	291	287	285
10*†	290	289	288	287	288	290	291	288	287	291	298	301	303	298	295
11	290	290	291	289	290	292	290	289	289	293	296	297	295	291	291
12	299	298	305	305	306	306	299	293	280	284	291	290	292	294	287
13	265	261	259	262	263	264	269	272	282	300	305	294	284	281	278
14	274	271	278	276	275	276	273	273	271	277	283	285	284	283	277
15*	282	280	281	283	282	284	287	287	285	290	291	293	286	289	295
16	287	288	292	292	291	287	289	284	281	282	280	279	276	285	293
17	283	291	292	262	261	262	182	200	182	168	145	141	074	058	116
18	200	216	214	214	213	219	219	219	217	214	215	218	213	212	221
19*	231	229	232	234	236	237	239	243	243	240	235	230	230	229	235
20*†	239	238	238	241	241	243	243	238	244	249	253	253	247	242	241
21	.....	.....	.....	.....	.....	.....	.....	.....	255	257	261	274	270	270	271
22	262	250	263	260	249	252	264	260	260	260	270	273	269	266	258
23	260	280	283	277	271	271	269	263	262	262	265	274	280	276	269
24	270	271	270	272	272	274	272	264	260	262	266	271	280	280	280
25	282	283	277	281	281	270	270	261	258	282	301	305	305	296	287
26	265	266	266	267	274	276	276	269	262	265	276	287	288	285	283
27	271	274	273	275	273	271	269	264	263	268	279	287	293	296	290
28	275	275	278	281	280	276	274	269	267	273	285	288	285	283	273
29	255	262	268	271	271	272	271	273	278	283	285	286	279	279	278
30*†	270	272	275	273	271	272	272	267	267	269	271	271	272	269	261
Mean.....	276	277	278	277	277	277	275	274	272	275	278	281	280	275	275
Mean*.....	276	276	276	278	278	278	279	278	277	280	284	288	287	283	281
Mean†.....	276	276	276	277	277	277	278	274	274	278	283	286	285	281	276

*Ten least disturbed days.

†Five international quiet days; May 4, 18, 23 used instead of 7, 8, 11.

28000γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	
318	293	266	289	270	261	265	261	268	304	10	41	348	17	08	257	91	1
298	300	299	296	297	296	296	293	297	300	10	08	332	1	30	266	66	2
316	310	303	301	300	293	307	304	301	305	16	00	316	20	38	289	27	3
305	305	306	305	309	307	315	319	316	312	11	41	332	14	26	299	33	4
310	...	...	...	...	...	...	...	...	...	..	..	...	..	..	...	..	5
...	...	...	...	...	...	...	...	...	...	..	..	...	..	..	...	..	6
...	...	...	...	...	...	...	...	...	...	..	..	...	..	..	...	..	7
...	...	...	...	...	...	...	...	...	...	..	..	...	..	..	...	..	8
...	...	...	...	...	...	...	...	...	...	..	..	...	..	..	...	..	9
...	...	...	...	...	...	...	...	...	...	..	..	...	..	..	...	..	10
...	...	...	...	...	...	...	...	...	...	..	..	...	..	..	...	..	11
...	...	...	...	...	...	...	...	...	...	..	..	...	..	..	...	..	12
...	...	...	...	...	...	...	...	...	...	..	..	...	..	..	...	..	13
...	...	...	...	...	...	...	...	...	...	..	..	...	..	..	...	..	14
...	...	...	...	...	...	...	...	...	...	..	..	...	..	..	...	..	15
...	...	...	...	...	...	...	...	...	...	..	..	...	..	..	...	..	16
...	...	...	...	...	293	295	297	299	...	..	..	...	..	..	...	..	17
293	287	288	290	291	292	291	291	293	292	3	00	306	8	49	283	23	18
294	300	293	290	290	285	287	296	279	295	12	41	309	24	00	274	35	19
279	278	285	285	293	292	296	297	299	290	12	43	300	0	16	270	30	20
279	275	279	286	291	296	298	293	290	291	2	52	306	16	46	274	32	21
287	287	286	288	293	293	292	293	293	291	4	08	305	13	26	278	27	22
289	281	280	285	290	289	292	288	289	290	5	27	294	16	43	277	17	23
269	250	254	267	270	268	266	271	273	287	11	00	330	16	49	242	88	24
276	261	256	265	274	281	284	285	287	284	12	27	324	17	23	253	71	25
300	295	295	307	311	312	304	309	297	302	11	44	325	4	17	287	38	26
310	315	305	295	291	285	288	292	294	296	11	18	323	1	41	269	54	27
308	297	293	294	299	298	299	299	301	301	14	19	316	0	46	291	25	28
310	302	298	296	296	298	299	301	301	302	12	02	315	8	33	293	22	29
294	280	272	270	267	275	282	286	290	289	14	25	308	19	16	266	42	30
287	280	281	278	285	288	289	289	290	293	10	50	307	18	06	268	39	31
295	289	286	287	290	289	292	293	292	296							42	
293	286	284	286	290	292	294	294	295	294							33	
301	294	293	294	297	293	297	297	298	299								

28000 γ PLUS TABULAR QUANTITIES.

285	280	279	285	289	289	290	292	294	290	12	30	304	17	03	279	25	1
300	287	283	285	287	287	287	287	287	294	11	48	322	17	52	282	40	2
296	292	292	292	291	293	294	293	294	292	12	40	306	8	29	283	23	3
285	286	287	292	293	293	294	294	294	292	11	59	305	15	13	284	21	4
296	294	296	297	298	296	296	295	296	296	11	11	304	1	00	291	13	5
291	291	295	299	301	303	305	306	306	297	23	46	307	10	40	287	20	6
303	319	319	315	317	319	317	310	304	311	20	16	320	23	56	299	21	7
296	288	286	288	293	296	296	295	294	296	8	02	307	17	03	284	23	8
283	283	286	286	288	290	289	289	288	287	12	02	293	3	49	280	13	9
286	282	283	289	290	291	291	291	292	291	12	15	304	17	07	281	23	10
290	283	293	305	305	302	303	304	311	295	23	42	314	16	51	280	34	11
278	262	251	245	228	217	225	248	248	276	3	48	312	20	16	208	104	12
266	265	262	262	264	277	276	272	284	274	10	15	306	0	00	249	57	13
274	276	277	279	279	280	280	283	283	278	23	48	286	1	02	267	19	14
295	293	294	297	295	292	290	290	288	289	18	30	297	0	37	280	17	15
295	287	279	279	281	280	283	314	299	287	22	49	335	11	46	276	59	16
138	154	169	173	171	180	181	217	212	188	0	05	315	13	30	053—	262+	17
229	229	229	226	226	226	228	229	231	220	24	00	231	0	10	192	39	18
238	243	239	242	239	239	242	242	241	237	9	08	243	13	34	228	15	19
241	(238)	(238)	(240)	(241)	(242)	(242)	(242)	(242)	(242)	11	00	253	2	03	235	18	20
272	273	274	270	256	257	260	264	264	...	11	12	281	..	..	...	..	21
256	248	249	256	265	265	259	256	259	...	11	06	275	1	57	244	31	22
262	258	259	263	264	263	263	265	268	268	2	07	286	0	41	256	30	23
277	273	280	280	285	290	297	292	286	276	21	50	300	8	31	258	42	24
279	268	261	260	264	266	266	266	267	276	12	00	308	8	17	254	54	25
273	272	262	261	263	270	272	268	271	272	12	03	291	17	55	256	35	26
279	270	267	270	269	276	279	281	279	276	13	30	296	7	45	261	35	27
271	269	270	270	267	261	261	256	258	273	11	35	288	24	00	253	35	28
267	260	262	260	259	259	264	267	270	270	11	24	287	0	00	252	35	29
258	256	258	264	264	265	266	267	267	267	2	16	275	16	42	255	20	30
272	269	269	271	272	273	274	276	276	275							40	
278	275	275	278	279	279	279	279	280	279							22	
273	271	272	275	276	274	275	276	276	277								

JULY, 1915.

28000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
2	266	266	266	266	268	269	271	273	275	283	288	292	292	286	285
3*	243	230	250	264	256	253	255	253	251	255	260	257	251	254	253
4*†	260	263	263	265	269	271	266	260	261	262	261	260	261	256	250
5	260	259	264	266	263	263	263	263	265	269	271	274	275	276	277
	267	270	269	268	267	266	264	263	273	291	306	308	301	296	286
6	286	277	285	305	280	277	279	276	275	282	276	267	259	258	256
7*	255	256	257	257	256	258	258	258	255	263	277	279	276	270	265
8	262	260	259	257	258	259	264	264	265	274	287	289	286	283	280
9	257	264	267	265	262	263	266	266	262	262	265	268	260	257	258
10	265	266	265	266	(266)	(265)	(264)	(263)	262	260	267	271	269	(270)	(269)
11	258	256	261	253	248	249	252	251	249	250	255	254	254	251	244
12	262	256	264	263	264	263	259	258	249	248	253	256	262	260	256
13*	260	260	260	260	259	259	258	255	251	254	265	268	270	272	277
14	261	261	262	260	259	260	262	257	262	271	274	273	265	260	267
15*†	267	266	269	268	269	268	266	262	259	258	255	254	259	265	265
16*†	268	269	267	268	267	267	267	268	267	274	279	289	293	287	279
17†	267	269	269	269	270	270	272	272	270	275	287	298	295	289	282
18*	276	275	274	276	275	277	280	285	290	297	301	302	289	283	288
19*	272	272	272	274	274	274	277	280	281	282	291	294	290	285	279
20	265	266	267	269	268	270	273	278	284	288	290	290	290	287	281
21	272	274	273	273	272	274	275	274	280	294	300	303	305	303	301
22	282	283	275	275	275	276	278	282	279	276	284	287	277	277	275
23*	262	265	262	264	266	267	267	267	273	284	294	302	296	283	280
24†	266	266	265	266	265	267	270	275	281	285	287	289	286	283	276
25	272	271	267	260	261	267	273	271	273	277	285	294	294	290	284
26	264	265	264	265	263	263	265	269	267	270	275	277	277	281	275
27	260	259	258	262	267	267	264	263	260	255	255	264	268	262	251
28*	259	259	257	256	253	253	257	261	260	260	262	264	271	273	275
29	259	260	262	261	(262)	(262)	(263)	(264)	(265)	276	279	288	308	314	303
30	267	271	263	263	264	265	263	264	256	257	256	254	257	257	258
31	262	266	265	266	265	265	268	269	272	275	275	278	272	267	260
Mean.....	265	265	265	266	265	265	266	267	267	271	276	279	278	275	272
Mean*.....	264	264	264	265	265	266	266	266	266	270	276	279	278	275	274
Mean†.....	266	266	267	267	267	267	268	268	268	272	276	281	282	280	276

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28000 γ PLUS TABULAR QUANTITIES.

1	267	(269)	(269)	(269)	(270)	(271)	(273)	(276)	282	(282)	282	285	276	268	266
2	263	254	(255)	(256)	(257)	(259)	(261)	(263)	269	277	281	276	267	263	247
3	247	248	248	249	250	250	253	259	270	282	294	293	289	276	272
4	251	252	255	272	261	256	257	257	261	264	263	258	240	232	231
5*†	256	257	258	258	255	256	254	259	262	265	271	271	264	262	270
6	260	262	260	259	258	259	264	273	287	300	306	309	309	298	288
7	216	219	223	228	233	229	227	222	225	228	230	237	246	254	252
8	...	...	...	...	...	...	...	...	238	250	...	...	265	258	253
9*	253	252	252	250	248	247	246	239	245	262	284	296	295	286	274
10	239	247	250	246	246	252	253	253	253	268	286	289	289	281	263
11	236	239	247	249	243	246	250	249	243	245	252	254	247	241	234
12*	254	252	252	252	251	249	249	248	253	258	259	259	256	251	247
13*†	256	256	255	256	255	255	258	258	260	267	271	272	268	263	266
14*†	263	265	264	266	266	267	267	266	268	278	284	283	277	267	263
15*†	262	263	265	264	262	264	265	269	275	282	289	296	293	285	281
16	267	266	267	269	269	269	272	282	288	297	297	299	298	293	286
17	281	274	278	271	268	274	271	273	272	270	255	255	255	251	246
18	255	261	261	266	269	265	268	275	275	276	281	285	284	276	267
19	262	260	273	268	256	255	260	267	277	284	284	279	269	261	253
20*	257	259	256	256	257	257	253	259	269	280	291	296	290	281	276
21	258	257	256	256	255	256	267	272	280	285	289	287	277	271	266
22*	260	252	253	253	253	255	258	255	252	259	262	261	268	270	268
23*	256	255	259	257	260	259	259	256	253	257	273	286	291	291	285
24†	259	262	258	255	255	256	256	258	263	272	278	274	266	263	259
25	268	268	267	262	261	262	267	269	274	278	284	287	291	295	289
26	216	223	226	227	225	232	234	240	254	255	251	242	234	228	223
27	255	257	246	246	249	245	251	245	244	251	254	251	245	238	235
28	245	257	246	244	247	246	242	231	227	243	260	272	270	266	257
29	253	256	258	262	255	256	252	250	247	244	240	232	244	244	237
30	246	247	248	247	248	251	242	239	236	238	250	249	244	244	249
31*	245	246	248	254	247	242	241	234	233	241	246	255	264	261	251
Mean.....	255	256	256	257	255	256	257	258	261	268	273	274	271	266	260
Mean*.....	256	256	256	257	255	255	255	254	257	265	273	278	277	272	268
Mean†.....	259	261	260	260	259	260	260	262	266	273	279	279	274	268	268

* Ten least disturbed days.

† Five international quiet days.

JULY, 1915.

28000γ PLUS TABULAR QUANTITIES

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	
280	267	259	273	280	270	260	247	245	272	12	25	292	23	25	231	61	1
245	242	240	244	250	253	254	256	258	251	2	43	269	1	37	223	46	2
250	250	251	256	257	259	259	260	260	260	5	48	271	15	04	247	24	3
271	263	263	264	266	268	268	268	267	267	14	04	279	0	00	259	20	4
277	272	273	273	280	282	283	287	290	280	11	04	308	7	37	263	45	5
248	241	244	253	258	259	258	257	256	267	3	32	309	16	56	239	70	6
259	254	257	261	263	259	255	257	262	261	11	54	280	21	45	254	26	7
280	270	268	260	256	265	256	251	256	267	11	13	292	22	04	246	46	8
258	256	247	(240)	(250)	(256)	(260)	(262)	264	(260)	2	46	273	17	41	230	43	9
(269)	269	269	268	266	258	261	263	264	(266)	..	..	(280)	8	59	(255)	(25)	10
246	245	240	238	242	251	247	254	268	251	21	17	272	17	38	234	38	11
250	243	247	253	256	259	260	260	260	257	4	54	267	16	24	240	27	12
276	270	260	255	258	257	257	267	260	262	14	30	279	17	51	251	28	13
270	264	262	261	263	264	264	265	267	264	11	05	275	8	07	257	18	14
260	254	255	260	265	265	266	267	268	263	5	00	270	17	02	253	17	15
277	274	272	269	268	267	267	267	267	272	12	18	294	8	13	263	31	16
277	272	271	273	277	277	277	277	276	276	11	56	298	0	00	267	31	17
287	283	278	273	272	273	275	273	273	281	11	01	302	2	07	271	31	18
270	267	268	266	266	266	265	265	266	275	11	51	294	22	19	263	31	19
277	271	271	271	273	274	274	274	273	276	12	42	291	0	00	265	26	20
300	293	283	276	278	276	278	278	282	284	12	09	308	0	09	271	37	21
268	265	253	256	264	266	265	273	266	273	10	47	290	17	35	248	42	22
275	272	269	266	266	267	267	267	265	273	11	30	303	0	30	262	41	23
272	268	272	280	286	283	274	272	274	275	11	31	289	0	00	265	24	24
280	273	267	266	271	271	271	263	262	273	12	17	296	3	31	257	39	25
263	268	265	269	266	269	260	257	257	267	13	42	282	22	00	249	33	26
244	238	242	244	249	254	252	252	262	256	12	34	272	16	36	236	36	27
281	(275)	270	263	262	263	262	261	260	263	15	40	282	5	12	253	29	28
292	264	264	266	265	258	248	254	260	(271)	13	10	316	21	16	247	69	29
286	264	255	250	250	253	258	261	263	260	1	00	275	19	03	246	29	30
260	261	260	263	266	268	268	267	269	267	11	45	278	15	20	258	20	31
269	263	261	262	264	265	264	264	265	267							35	
271	266	264	263	264	264	264	264	265	268							28	
271	266	267	269	272	264	265	265	265	270								

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28000γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	
264	264	263	260	248	248	244	247	265	(267)	11	39	285	21	17	238	47	1
230	239	248	244	221	236	239	262	255	(256)	10	34	282	19	36	213	09	2
266	260	253	258	259	258	254	254	254	262	10	54	297	0	40	246	51	3
239	238	246	255	257	257	256	257	256	253	3	28	275	14	38	226	49	4
265	265	264	264	265	264	263	263	263	273	11	34	271	7	17	253	18	5
286	280	270	258	256	245	223	207	201	267	12	32	310	23	28	190	120	6
252	243	240	...	...	...	...	234	...	...	14	50	259	0	33	214	45	7
252	256	259	262	262	256	254	254	254	...	...	...	8	00	...	...	...	8
264	251	251	247	252	253	256	256	248	259	12	02	298	7	42	234	...	9
256	249	240	233	234	230	234	236	238	253	11	33	291	18	49	227	61	10
231	237	238	237	246	250	251	252	255	245	23	32	257	14	59	227	30	11
252	253	248	249	252	252	256	258	258	253	9	52	259	14	42	245	14	12
266	266	260	259	258	259	260	262	263	261	11	01	273	0	00	254	19	13
262	257	251	254	256	256	259	260	260	265	11	16	284	17	33	251	33	14
277	271	268	267	269	268	268	266	266	272	11	58	298	0	00	261	37	15
284	284	284	288	292	294	294	294	290	284	9	31	301	0	00	265	36	16
246	255	253	265	266	260	253	249	255	262	0	00	289	22	27	243	46	17
260	(258)	256	258	263	264	264	266	266	267	11	39	287	0	00	252	35	18
251	251	247	248	254	255	256	258	257	262	10	05	286	17	49	241	45	19
263	257	257	257	258	258	258	259	259	265	11	29	296	6	06	250	46	20
265	256	259	263	262	255	257	258	264	265	10	48	291	20	42	251	40	21
259	257	258	257	260	260	253	254	254	258	13	18	271	1	20	251	20	22
277	266	261	260	262	265	266	267	262	266	12	28	292	3	41	253	39	23
260	258	257	259	265	267	266	264	270	262	10	28	278	4	10	252	26	24
286	277	269	241	225	192	207	196	207	259	13	12	297	20	32	178	119	25
215	210	213	218	230	228	228	238	240	230	8	27	257	17	09	202	55	26
231	228	228	235	240	242	(250)	(256)	246	244	0	53	262	15	51	225	37	27
250	245	247	248	250	250	250	250	253	250	12	07	272	8	12	225	47	28
228	229	223	233	239	244	245	245	244	244	3	17	263	18	03	222	41	29
245	240	235	238	238	240	241	250	247	244	11	07	251	17	57	233	18	30
246	237	234	237	240	238	240	245	246	245	12	54	264	7	53	231	33	31
256	253	251	251	252	251	251	253	253	258							45	
263	258	255	255	257	257	258	259	258	261							32	
266	263	260	261	263	258	259	261	260	264								

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28000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
	\bar{r}	\bar{r}	\bar{r}	\bar{r}	\bar{r}	\bar{r}	\bar{r}	\bar{r}	\bar{r}	\bar{r}	\bar{r}	\bar{r}	\bar{r}	\bar{r}	\bar{r}
1	248	248	251	251	251	250	248	244	242	250	262	268	270	272	270
2*	254	254	257	254	251	252	253	251	259	267	267	262	255	252	250
3	250	255	255	255	256	257	257	262	268	280	286	286	279	274	262
4	256	255	255	255	255	255	249	242	246	259	267	267	262	256	253
5	265	265	268	273	275	271	263	259	260	264	272	271	265	257	251
6*	252	252	253	253	254	254	251	241	235	238	245	250	251	249	247
7*†	256	255	256	254	253	253	246	243	246	255	262	264	260	255	250
8*†	259	258	258	259	258	256	258	261	266	271	271	271	273	269	264
9*	259	260	259	259	260	259	260	260	260	270	281	288	290	285	282
10	254	255	252	253	250	247	249	248	256	270	276	276	273	263	254
11	249	245	244	245	247	248	245	238	234	242	257	267	267	262	263
12*	253	252	254	255	253	253	250	243	242	246	255	262	269	273	272
13	254	254	254	253	253	255	257	251	243	237	239	242	246	247	240
14	248	252	251	250	250	249	248	245	242	239	246	254	261	263	259
15*	250	251	254	253	254	254	252	252	252	258	265	265	264	254	250
16	251	251	252	255	257	258	264	270	272	282	297	296	294	291	277
17	232	229	230	236	238	251	258	254	259	265	264	261	247	239	233
18†	236	235	237	239	239	238	239	238	237	240	245	255	263	266	266
19*†	254	252	251	252	252	252	254	246	249	258	266	270	270	262	247
20*†	250	252	254	254	255	256	259	257	257	259	266	269	269	267	258
21*	259	259	261	260	259	262	260	257	256	270	282	279	280	264	257
22	255	254	253	251	252	250	244	237	237	236	238	234	212	230	233
23	223	226	250	242	227	230	236	235	215	219	221	225	228	227	211
24	230	230	234	233	238	231	227	222	213	210	213	217	222	214	211
25	230	234	236	233	231	232	231	233	229	235	235	239	230	226	221
26	247	234	229	235	237	232	232	234	229	235	247	244	234	223	224
27	228	235	255	250	235	233	230	228	222	216	220	222	221	228	225
28	214	224	237	241	243	233	224	221	220	225	227	234	236	228	210
29	215	215	215	219	220	224	221	217	226	229	237	235	240	236	226
30	217	225	226	219	216	218	213	222	220	217	217	222	222	213	199
Mean.....	245	246	248	248	247	247	246	244	243	248	254	256	255	252	246
Mean*.....	255	254	256	255	255	255	254	251	252	259	266	268	268	263	258
Mean†.....	251	250	251	252	251	251	251	249	251	257	262	266	267	264	257

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28000 γ PLUS TABULAR QUANTITIES.

1	230	229	229	230	234	236	237	237	237	238	240	242	238	233	229
2†	234	235	235	237	240	241	238	232	233	237	238	243	239	236	234
3	242	244	246	246	249	248	251	250	246	241	239	246	248	249	245
4	237	236	236	238	241	241	241	239	238	239	246	254	259	259	253
5*†	241	243	244	247	247	248	251	253	251	250	252	253	252	248	248
6*	246	247	246	248	247	250	249	252	251	257	266	268	267	259	255
7*	250	245	246	248	249	249	249	251	252	254	259	268	269	268	261
8*	243	246	244	245	245	245	242	244	247	256	266	267	267	262	260
9*†	249	249	247	246	248	247	248	251	250	252	257	262	264	262	257
10	253	253	253	254	256	257	258	266	275	274	272	275	286	268	258
11	235	240	248	250	244	240	242	249	243	243	254	261	265	260	245
12*	240	242	243	244	246	245	246	247	246	246	246	254	258	254	247
13*	245	244	245	247	249	251	253	256	254	255	262	268	270	268	257
14	244	241	240	243	246	252	262	261	253	251	253	248	240	221	207
15	185	193	195	201	210	223	224	223	204	189	181	171	157	138	132
16	185	204	202	205	206	212	218	229	231	226	225	231	228	219	212
17	211	202	210	213	217	217	218	220	223	229	230	228	225	219	216
18†	229	226	227	230	230	231	235	242	245	244	242	242	243	240	236
19	241	242	236	244	238	241	239	255	256	248	243	211	183	174	161
20	207	240	234	231	234	239	244	244	240	241	233	232	231	226	213
21	207	214	219	221	224	227	227	229	235	234	240	247	246	236	226
22	225	226	227	229	230	230	237	244	242	244	241	239	233	217	192
23	207	210	228	225	222	227	225	233	232	205	216	227	208	181	168
24	181	205	202	198	201	200	195	205	207	213	203	199	187	178	194
25	191	196	207	208	213	194	194	203	196	191	190	182	170	160	154
26	200	205	205	207	212	212	217	228	227	221	215	213	206	205	199
27*	215	217	217	221	221	223	224	233	232	231	227	222	214	205	199
28*	213	214	216	219	219	220	228	237	244	246	242	236	226	217	207
29*†	218	219	223	223	222	224	240	241	242	243	239	237	233	230	224
30	227	228	228	241	243	248	250	256	254	254	252	249	241	239	238
31	217	219	221	224	231	235	238	237	246	245	244	249	243	235	233
Mean.....	224	228	229	231	233	234	236	240	240	239	239	239	235	228	221
Mean*.....	236	237	237	239	239	240	243	246	247	249	252	254	252	247	242
Mean†.....	234	234	235	237	237	238	242	244	244	245	246	247	246	243	240

* Ten least disturbed days.

† Five international quiet days.

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28000γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	
259	255	253	255	256	257	257	256	255	255	13	07	273	8	00	241	32	1
248	244	245	251	256	256	256	252	251	254	10	13	268	16	45	244	24	2
257	248	251	256	257	257	258	258	258	262	10	42	288	16	24	247	41	3
248	249	255	260	263	263	263	264	266	257	10	43	268	7	28	240	28	4
247	245	244	250	253	251	253	253	254	260	5	02	278	17	24	242	36	5
245	244	246	252	256	256	257	257	257	250	19	16	257	8	09	234	23	6
248	248	250	253	256	257	257	257	258	254	11	30	265	7	43	242	23	7
260	255	257	262	263	264	263	262	260	262	12	31	274	17	06	255	19	8
272	266	267	268	269	272	261	256	253	267	12	29	291	22	56	250	41	9
250	249	247	246	249	251	254	251	252	255	10	24	277	17	31	244	33	10
259	250	248	252	252	248	246	248	254	250	12	09	270	8	06	234	36	11
262	251	249	251	252	251	249	251	256	254	13	53	274	7	48	241	33	12
236	232	227	232	244	246	247	249	251	245	6	26	258	17	14	225	33	13
255	249	246	247	250	248	244	243	248	249	12	54	263	9	28	237	26	14
248	246	250	254	253	252	247	245	248	253	11	10	266	22	22	244	22	15
256	248	246	247	240	228	221	228	236	259	10	39	298	22	08	216	82	16
227	228	228	230	237	238	236	236	236	241	8	52	275	1	19	227	48	17
260	252	253	258	257	256	255	256	259	249	13	53	268	0	00	235	33	18
241	237	240	247	250	251	252	251	250	252	12	09	272	16	07	237	35	19
252	249	253	254	254	254	258	261	260	257	12	54	271	0	00	249	22	20
257	258	255	256	257	258	256	256	257	261	10	46	283	17	46	253	30	21
222	213	194	197	203	191	199	214	226	228	1	20	256	17	54	188	68	22
227	221	(223)	(227)	(228)	228	228	250	249	229	2	54	251	14	21	202	49	23
211	216	212	216	223	227	229	232	234	223	4	19	239	17	42	205	34	24
216	222	226	224	224	228	237	236	235	230	11	32	240	15	42	211	29	25
219	206	207	197	214	224	227	229	230	228	11	02	249	18	14	189	60	26
225	219	222	226	230	232	231	225	219	228	2	16	258	11	56	213	45	27
212	205	197	194	179	184	193	198	216	216	4	56	244	19	47	175	69	28
218	207	209	217	230	233	224	211	202	222	12	42	241	23	24	199	42	29
186	178	182	202	212	216	219	222	226	213	0	52	244	16	52	177	67	30
241	236	236	239	242	243	243	244	245	246							39	
253	250	251	255	257	257	256	255	255	257							27	
252	248	251	255	256	252	251	251	252	254								

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28000γ PLUS TABULAR QUANTITIES.

220	216	219	224	234	236	237	237	236	232	11	19	243	16	03	215	28	1
234	236	239	244	245	244	243	243	243	238	20	10	245	8	08	230	15	2
245	247	249	241	235	230	229	237	239	243	7	05	251	21	11	226	25	3
247	245	249	249	252	248	247	244	244	245	13	46	259	0	00	235	24	4
243	243	246	249	253	249	248	249	248	248	12	49	254	1	24	240	14	5
251	245	247	248	248	246	246	248	250	252	11	12	269	18	00	243	26	6
259	250	246	241	244	243	244	247	245	252	13	05	272	18	30	237	35	7
252	242	242	243	243	246	246	246	247	249	12	15	268	19	21	241	27	8
248	244	249	252	251	247	247	244	246	251	12	42	265	22	52	241	24	9
248	221	191	205	219	224	225	229	232	248	12	08	288	17	22	187	101	10
235	230	225	222	234	239	242	240	242	243	12	31	265	18	20	219	46	11
241	239	240	242	245	246	244	244	246	245	12	30	258	16	21	238	20	12
246	244	246	247	244	245	249	250	248	252	12	22	271	1	39	243	28	13
199	199	200	214	223	221	222	216	212	232	10	15	262	24	00	184	78	14
126	108	109	134	137	135	165	173	179	170	6	18	228	17	33	101	127	15
213	213	211	203	209	225	224	220	216	215	11	59	233	0	27	178	55	16
215	217	223	226	226	226	226	225	227	220	10	20	231	1	35	198	33	17
234	235	238	238	238	235	236	238	240	236	9	16	245	1	08	221	24	18
141	161	178	189	198	204	209	209	212	213	7	49	263	15	25	132	131	19
216	221	221	216	211	211	198	200	210	225	1	40	252	21	38	195	57	20
223	209	211	221	226	225	224	225	226	226	11	52	248	16	47	202	46	21
178	174	174	183	174	161	167	207	206	212	9	43	247	20	27	156	91	22
184	193	197	196	168	159	147	153	166	199	8	50	233	21	28	143	90	23
192	187	186	193	205	204	183	181	187	195	9	31	215	0	05	165	50	24
152	156	165	173	180	203	187	209	206	187	4	30	216	14	11	145	71	25
192	200	198	194	204	206	212	211	213	208	7	19	229	15	17	186	43	26
198	202	201	197	197	198	202	209	211	213	8	44	233	19	55	194	39	27
201	196	191	192	197	203	211	214	218	217	9	06	248	17	22	189	59	28
222	224	227	226	228	227	227	227	226	229	9	50	244	0	00	217	27	29
233	234	234	232	217	214	206	212	217	235	9	03	256	21	35	204	52	30
231	216	230	225	209	205	206	213	210	228	11	54	251	20	00	202	49	31
217	214	216	218	219	220	219	223	224	228							50	
236	233	234	234	235	235	236	238	238	241							30	
236	236	240	242	243	232	233	233	234	239								

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28000_γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>
1	199	202	209	213	207	218	219	232	235	240	229	211	201	191	173
2	186	188	190	192	193	197	203	205	207	216	217	208	208	211	209
3*†	206	207	207	208	209	209	209	212	218	222	224	225	220	208	208
4*†	209	209	212	214	216	218	225	231	236	237	238	242	240	233	223
5	222	222	222	224	226	228	232	240	245	247	254	271	265	248	211
6	184	169	160	159	203	192	177	235	235	225	202	192	166	144	132
7	185	195	189	191	194	197	203	202	202	208	216	212	206	202	192
8	204	202	201	201	199	203	205	205	205	204	205	207	202	194	196
9	203	206	209	209	209	209	214	218	219	221	220	226	219	221	216
10	213	227	236	230	224	227	227	229	225	209	206	210	211	207	202
11	211	212	214	221	221	216	224	234	240	237	223	224	219	214	203
12	205	201	208	212	213	210	217	224	226	228	226	223	213	209	208
13*	218	217	218	219	220	222	227	235	237	235	232	224	215	203	202
14*†	216	217	218	220	221	223	226	232	232	230	227	230	228	225	220
15	215	217	224	229	228	230	233	239	234	227	221	217	218	206	203
16	197	212	198	195	196	197	204	204	187	170	168	191	196	187	161
17	180	189	188	197	185	183	185	190	200	190	191	188	186	179	175
18	188	183	187	215	218	198	194	206	189	184	190	188	184	189	186
19	194	195	209	211	215	206	206	216	210	203	219	224	206	197	193
20	202	211	201	199	200	205	210	215	214	214	211	196	203	204	203
21	197	196	198	201	204	209	214	223	223	227	225	220	213	205	199
22	206	206	212	214	213	211	218	223	228	216	221	216	212	207	198
23*	206	207	207	209	207	208	214	220	220	218	219	219	215	209	205
24*	208	211	209	212	213	213	216	228	234	237	237	234	228	221	213
25*	216	218	215	217	213	221	227	235	233	226	221	215	210	215	211
26*	222	215	217	222	221	223	233	232	229	227	229	232	232	221	213
27	214	213	222	223	220	220	222	241	261	266	264	267	253	240	234
28	205	207	217	217	215	217	220	229	234	233	228	227	220	217	217
29*†	223	223	224	224	225	225	226	226	221	218	213	209	207	208	208
30*†	213	216	219	223	225	226	230	237	240	238	236	231	230	229	221
Mean.....	205	206	208	211	212	212	215	223	224	222	220	219	214	208	201
Mean*.....	214	214	215	217	217	219	223	229	230	229	228	226	222	217	212
Mean†.....	213	214	216	218	219	220	223	228	229	229	228	227	225	221	216

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1*†	223	224	224	223	223	226	228	233	233	230	234	235	229	222	220
2*	223	224	228	233	232	234	237	244	237	230	230	232	228	225	228
3	210	215	217	219	219	219	224	229	229	225	230	231	232	227	221
4*	219	220	221	221	223	226	227	231	233	233	236	241	241	239	237
5†	227	228	228	229	231	231	231	233	232	229	229	235	235	234	234
6	221	226	232	237	242	236	229	233	230	218	213	206	188	167	131
7	190	185	183	193	192	191	194	196	194	194	190	206	204	198	194
8	192	192	194	198	200	202	204	204	207	201	201	203	202	198	196
9	206	206	207	208	211	210	210	212	212	209	206	204	200	202	207
10	220	221	224	224	224	224	228	232	236	234	226	218	214	213	211
11	211	211	214	214	214	215	216	218	216	215	210	205	210	210	211
12	188	190	192	195	200	203	206	216	221	221	224	229	229	229	228
13*	219	219	218	218	217	218	223	231	236	236	240	242	238	234	228
14	216	217	218	224	228	233	232	238	237	231	217	204	189	176	176
15	206	204	205	211	217	228	231	234	240	228	228	218	190	168	157
16	205	204	203	202	208	213	221	220	220	214	204	198	193	193	194
17	208	209	210	211	212	214	217	222	221	216	217	212	201	196	194
18*†	215	215	215	217	217	220	222	229	231	231	226	223	220	214	215
19*	213	216	218	218	222	223	222	227	230	231	233	227	216	208	205
20*	213	214	213	215	217	220	223	227	230	233	236	242	240	225	220
21*†	220	223	225	226	225	225	226	231	230	227	224	221	214	214	216
22†	221	224	224	226	228	228	230	233	235	239	243	240	228	225	224
23	218	220	224	223	223	221	222	228	231	229	227	213	211	212	214
24	221	220	214	217	220	222	224	229	229	233	242	244	234	223	215
25	221	222	219	224	224	223	223	226	231	230	229	220	200	192	200
26	205	204	208	206	206	210	212	221	211	217	219	228	227	214	210
27	208	207	208	213	215	215	215	216	223	225	221	208	195	198	201
28	211	211	213	214	214	216	214	216	212	206	205	206	203	203	207
29	217	218	218	220	220	220	220	223	223	215	210	205	199	200	208
30*	213	215	215	215	221	221	224	224	222	220	206	191	191	197	209
31*	213	216	215	218	219	222	221	221	209	204	207	209	209	209	211
Mean.....	213	214	214	216	218	220	221	225	225	223	222	219	213	209	207
Mean*.....	217	219	219	220	222	224	225	230	229	228	227	226	223	219	219
Mean†.....	221	223	223	224	225	226	227	232	232	231	231	231	225	222	222

* Ten least disturbed days.

† Five international quiet days.

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28000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
149	135	143	158	175	177	179	181	186	194	9	12	244	16	34	130	114	1
204	191	199	204	207	207	207	207	208	203	10	13	219	0	00	183	36	2
208	205	207	208	210	208	212	212	212	211	11	33	225	0	20	205	20	3
209	205	210	216	216	217	219	222	223	222	12	06	243	16	00	203	40	4
184	186	188	189	160	131	137	168	180	212	11	38	275	21	15	109	166	5
142	139	141	162	171	175	177	189	188	177	8	47	244	14	21	127	117	6
180	173	180	186	189	197	199	204	209	196	10	39	217	16	40	173	44	7
196	195	196	198	202	201	200	200	201	201	12	09	210	13	03	189	21	8
205	190	190	192	195	203	209	211	212	209	11	38	226	16	56	189	37	9
202	201	204	207	209	210	216	215	211	215	2	15	239	16	30	198	41	10
195	190	186	190	200	203	206	208	207	212	8	29	242	17	00	183	59	11
206	212	213	215	210	206	211	212	215	213	9	45	230	1	43	199	31	12
204	200	212	217	218	218	218	217	218	219	8	30	239	14	33	200	39	13
218	221	223	225	226	226	223	223	222	224	8	26	234	0	00	216	18	14
193	205	212	178	172	181	190	178	181	210	7	47	239	18	48	151	88	15
150	165	166	166	175	187	182	197	189	185	1	01	221	15	58	146	75	16
187	197	202	200	183	164	172	180	186	187	8	06	206	20	27	159	47	17
182	179	171	174	186	186	191	201	198	190	4	20	221	17	48	166	55	18
181	183	192	195	195	187	193	196	200	201	11	13	225	15	31	177	48	19
197	203	203	189	191	191	192	205	201	202	9	15	216	18	45	180	36	20
191	191	199	201	202	208	211	208	207	207	9	10	230	16	21	187	43	21
187	189	194	195	196	199	202	204	205	207	8	29	231	15	36	180	51	22
197	195	200	206	208	209	208	208	208	209	7	46	221	15	54	194	27	23
212	210	211	210	213	215	214	214	213	218	5	05	241	0	00	207	34	24
211	214	219	220	221	223	224	226	221	220	7	49	235	15	42	206	29	25
212	210	210	212	218	218	215	218	215	221	6	53	236	17	23	207	29	26
229	221	218	206	225	196	199	190	203	227	8	54	270	22	12	188	82	27
218	223	226	226	226	223	223	223	223	221	7	50	237	0	25	203	34	28
210	216	219	221	221	223	220	216	217	218	7	56	228	13	54	207	21	29
222	223	224	223	226	223	223	223	223	226	9	51	240	0	24	210	30	30
196	196	199	200	202	200	202	205	206	209							50	
210	211	214	216	218	218	218	218	217	219							29	
213	214	217	219	220	216	216	215	215	220								

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28000 γ PLUS TABULAR QUANTITIES.

217	217	221	224	226	224	223	223	223	225	11	07	237	16	08	216	21	1
232	231	226	220	220	217	214	215	213	227	7	43	244	24	00	209	35	2
219	217	218	217	216	216	219	219	219	221	11	05	233	0	21	207	26	3
235	228	228	229	231	231	229	227	228	230	12	25	242	0	00	219	23	4
234	235	238	238	239	236	228	224	218	232	19	53	240	23	18	216	24	5
132	130	115	116	141	159	165	168	191	189	7	54	242	17	28	104	138	6
191	190	185	189	184	185	187	201	193	192	11	33	208	1	51	181	27	7
196	197	198	199	199	201	203	203	206	200	8	33	208	1	05	191	17	8
208	201	210	215	222	223	222	220	220	210	20	21	223	16	15	198	25	9
212	210	218	219	217	216	214	212	212	220	9	30	236	16	24	208	28	10
209	203	196	192	192	187	186	186	189	205	7	18	218	21	33	184	34	11
224	218	217	215	217	217	220	219	219	214	11	54	230	0	13	186	44	12
227	225	222	220	222	224	224	221	219	226	11	32	242	4	35	215	27	13
187	196	198	197	198	200	208	208	208	210	8	19	239	13	47	173	66	14
157	163	171	188	188	191	197	199	197	201	8	19	242	14	20	154	88	15
198	204	208	202	204	202	202	204	205	205	9	30	221	13	45	190	31	16
200	207	207	207	210	212	212	213	215	210	8	20	222	14	00	191	31	17
217	213	216	217	220	220	218	218	214	219	8	46	232	23	30	212	20	18
214	219	218	212	211	214	216	218	217	219	10	21	233	14	14	201	32	19
220	220	220	218	217	215	215	215	217	222	12	00	244	0	00	212	32	20
221	221	221	222	219	217	217	221	222	222	8	06	231	13	46	213	18	21
224	223	224	220	216	209	216	214	216	225	10	39	244	20	12	208	36	22
217	209	218	215	214	214	214	214	217	219	9	00	231	16	27	206	25	23
212	205	205	217	217	217	215	214	220	221	11	06	245	16	12	204	41	24
205	210	213	211	208	206	198	206	205	214	10	04	231	13	00	190	41	25
210	213	214	216	216	210	205	206	207	212	11	49	230	0	56	197	33	26
205	205	204	204	203	207	211	211	211	210	9	38	226	12	34	192	34	27
214	218	221	223	224	221	219	214	217	213	19	52	224	13	38	199	25	28
214	223	222	214	215	217	215	214	214	215	8	14	223	12	30	198	25	29
215	215	215	219	219	219	219	211	212	214	7	10	224	11	36	189	35	30
209	209	211	215	218	221	220	218	214	214	6	44	223	9	27	202	21	31
209	209	210	210	211	211	211	211	212	215							36	
221	220	220	220	220	220	219	218	218	222							26	
223	222	224	224	224	220	219	220	221	225								

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Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1*	215	216	217	220	219	221	221	221	218	214	211	211	212	219	223
2*†	223	225	225	228	228	229	235	233	235	232	227	219	221	227	233
3	226	225	228	228	227	227	226	231	235	238	243	239	226	221	220
4	220	223	225	228	224	223	224	227	230	236	233	222	214	209	217
5	208	208	206	209	209	211	213	218	220	218	217	215	208	198	189
6	222	222	222	222	224	223	226	228	233	231	230	236	223	210	207
7*	214	214	213	215	217	219	220	227	229	221	218	218	212	212	216
8*†	218	220	220	222	223	224	225	226	223	218	219	219	217	219	217
9	226	228	231	230	232	233	232	232	230	231	224	216	206	204	207
10	223	225	226	226	227	228	228	234	245	248	250	263	251	227	217
11	213	208	211	224	231	233	220	208	202	199	208	205	204	218	188
12	182	181	179	176	184	188	188	186	187	185	194	203	204	199	190
13	206	188	188	190	190	189	192	189	185	174	174	179	188	175	189
14	194	194	196	198	200	200	200	205	206	207	207	204	196	194	197
15*†	204	203	205	207	207	207	207	209	208	205	205	202	197	195	192
16*	206	207	210	212	210	210	211	209	205	198	188	188	182	182	183
17*†	206	207	207	208	208	204	207	212	213	210	210	205	193	192	198
18*	208	208	210	213	214	216	219	221	220	217	222	225	217	207	203
19†	214	215	215	216	216	217	217	222	219	211	207	206	200	202	210
20	228	225	219	222	223	224	225	228	223	202	179	198	196	199	198
21	195	194	194	197	201	204	206	211	209	205	200	203	195	191	194
22	202	198	200	208	207	208	217	228	225	224	213	221	240	240	233
23	172	169	176	179	183	185	187	194	197	191	188	188	188	183	185
24	194	197	199	201	199	200	197	200	210	212	215	216	210	205	206
25	202	204	211	203	213	211	211	216	212	207	200	187	181	171	173
26	195	198	200	202	205	205	205	207	210	209	205	202	202	203	200
27*	202	204	208	208	205	202	202	205	205	203	207	209	205	202	197
28	204	207	209	208	208	210	211	216	218	219	220	222	221	217	210
29	205	205	206	208	210	211	211	218	220	218	212	209	201	195	196
30	208	209	210	209	211	211	214	222	228	228	231	236	232	226	223
31*	209	210	210	207	208	210	212	217	217	214	212	215	215	214	204
Mean.....	208	208	209	210	212	212	213	216	217	214	212	212	208	205	204
Mean*.....	210	211	212	214	214	214	216	218	217	213	212	211	207	207	207
Mean†.....	213	214	214	216	216	216	218	220	220	215	214	210	206	207	210

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28000 γ PLUS TABULAR QUANTITIES.

1*†	207	206	206	207	208	210	211	217	220	221	221	220	217	215	216
2*	215	215	214	215	216	216	215	219	219	214	216	218	216	212	208
3*	211	210	208	209	211	213	213	217	218	215	210	214	215	216	218
4	214	215	219	221	222	225	226	230	233	230	229	223	214	212	207
5	213	216	217	218	219	223	222	223	227	225	222	225	210	212	215
6*†	202	204	203	206	207	208	210	209	215	213	211	214	213	209	211
7	205	209	212	214	213	215	216	217	218	215	212	213	212	216	217
8	221	222	222	224	226	226	230	228	227	234	233	231	222	202	191
9	196	196	198	201	202	205	208	212	212	210	207	208	208	202	200
10	202	206	212	211	209	210	211	215	218	216	214	212	207	203	210
11*	209	210	210	210	211	214	214	216	218	215	209	206	206	206	212
12	202	204	209	212	214	216	220	222	231	229	226	225	228	223	214
13	195	201	204	209	211	209	209	215	218	217	217	214	214	213	211
14	197	202	201	204	209	208	208	216	222	227	219	216	212	206	206
15	202	210	204	206	208	210	213	219	224	225	223	219	217	212	202
16*†	209	209	211	210	210	212	214	221	226	223	222	227	233	225	222
17	216	216	215	222	223	221	219	224	225	224	224	213	205	197	197
18	185	186	192	194	200	207	198	205	215	213	202	197	192	196	201
19	193	191	192	192	196	200	202	209	205	200	194	197	197	201	204
20	203	200	200	200	202	205	210	215	215	214	211	211	205	206	200
21*†	206	206	209	208	209	212	214	218	218	211	200	200	210	218	220
22	206	210	196	199	197	196	197	205	207	205	200	201	205	208	206
23	199	200	202	205	206	207	209	215	220	220	214	210	218	225	226
24	187	187	187	191	194	195	197	203	208	206	201	199	203	208	207
25*†	202	200	199	199	204	206	208	210	209	209	202	199	204	216	223
26	205	204	209	211	211	212	217	227	231	229	221	219	216	220	227
27	204	207	210	211	212	212	213	219	223	220	217	222	222	215	210
28*	199	199	199	201	205	202	202	205	207	205	203	204	211	215	216
29*	203	202	204	204	205	207	206	214	217	216	217	219	219	219	223
Mean.....	204	205	206	207	209	210	211	216	219	217	214	213	212	211	211
Mean*.....	206	206	206	207	209	210	211	215	217	214	211	212	214	215	217
Mean†.....	205	205	206	206	208	210	211	215	218	215	211	212	215	217	218

*Ten least disturbed days.

†Five international quiet days.

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28000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
224	226	229	232	233	231	228	226	225	221	18	29	233	11	18	208	25	1
229	225	227	228	229	228	226	223	221	227	8	39	235	11	58	218	17	2
225	228	227	220	220	209	212	214	219	226	10	44	243	20	08	207	36	3
217	211	209	215	221	211	205	203	203	219	9	55	238	23	16	200	38	4
195	199	199	207	209	213	216	219	221	209	24	00	221	14	32	187	34	5
216	222	222	217	214	211	214	216	216	221	10	38	239	13	06	204	35	6
216	217	217	217	217	217	216	215	216	217	8	15	229	13	00	209	20	7
215	216	217	216	218	220	222	224	226	220	24	00	227	15	01	213	14	8
207	211	218	221	225	224	224	222	221	222	6	12	234	12	26	202	32	9
213	223	203	186	180	184	186	192	200	220	11	33	266	19	51	176	90	10
171	151	134	105	109	133	158	148	175	186	3	54	238	18	38	077	161	11
180	177	169	171	171	178	186	196	216	186	23	50	222	19	34	166	56	12
192	185	177	187	186	191	191	193	196	187	0	03	219	17	12	167	52	13
196	195	196	201	205	207	206	204	204	200	10	30	207	0	13	194	13	14
191	(193)	194	196	202	202	203	203	205	202	7	45	210	15	04	191	19	15
186	187	194	197	199	200	202	207	210	199	2	45	213	13	51	179	34	16
200	200	200	203	208	209	207	207	207	205	8	28	213	13	06	189	24	17
203	207	210	211	211	210	211	212	214	213	11	03	227	15	17	201	26	18
210	207	208	212	214	214	220	225	231	214	24	00	233	12	48	197	36	19
197	191	186	185	184	185	190	194	193	204	0	00	233	10	25	172	61	20
194	197	204	204	206	206	206	205	208	201	7	57	211	13	25	190	21	21
220	194	203	200	192	177	156	164	174	206	12	31	243	21	24	149	94	22
184	180	179	185	191	193	193	193	194	186	8	26	198	1	55	164	34	23
210	209	207	208	204	204	205	204	201	205	11	27	217	0	23	193	24	24
183	188	190	190	192	198	201	200	197	198	4	42	221	13	25	162	59	25
204	204	207	205	203	203	202	202	201	203	8	27	212	0	18	193	19	26
197	198	202	207	205	204	202	202	202	203	11	39	212	15	27	196	16	27
209	203	203	208	215	216	207	214	208	212	11	48	222	17	10	199	23	28
196	200	203	204	204	207	207	207	207	207	8	45	221	13	39	191	30	29
222	211	205	205	210	210	210	210	212	216	11	48	236	17	54	204	32	30
201	199	198	198	201	205	205	207	206	208	7	48	218	18	12	196	22	31
203	202	201	201	203	203	204	205	207	208							39	
206	207	209	210	212	213	212	213	213	212							22	
209	208	209	211	214	213	213	213	214	213								

FEBRUARY, 1916.

28000 γ PLUS TABULAR QUANTITIES.

221	217	214	213	213	213	214	213	214	214	9	33	221	1	22	205	16	1
205	205	207	207	208	206	210	211	212	212	7	54	220	20	15	203	17	2
220	211	212	214	211	210	210	210	213	213	15	10	220	2	20	207	13	3
203	204	206	206	205	210	212	213	215	216	8	24	234	15	01	202	32	4
205	192	199	200	199	199	199	200	202	212	8	43	228	16	32	189	39	5
207	204	200	202	206	203	202	203	205	207	12	06	216	17	28	200	16	6
219	217	217	221	227	225	217	214	217	216	19	34	229	0	24	204	25	7
183	171	170	177	188	194	197	198	196	209	9	28	236	17	18	167	69	8
200	(202)	205	208	205	200	202	202	201	204	8	37	212	0	00	195	17	9
213	212	212	213	211	206	206	206	206	210	8	15	219	0	21	200	19	10
212	(209)	203	203	205	204	201	204	204	209	8	53	218	22	45	199	19	11
203	200	207	204	200	200	197	198	193	212	12	36	237	23	42	189	48	12
210	208	205	193	196	205	205	192	189	207	8	35	218	24	00	186	32	13
207	205	204	204	203	204	203	203	206	208	9	12	228	0	08	186	42	14
197	202	206	205	205	207	207	207	210	210	9	16	225	15	32	195	30	15
216	211	212	213	215	216	216	217	217	217	12	27	233	1	49	208	25	16
203	208	207	206	200	179	167	175	182	207	10	00	227	21	36	160	67	17
188	185	186	191	197	195	192	192	193	196	8	48	217	15	47	179	38	18
198	(197)	196	201	203	205	206	206	205	200	7	30	209	1	04	190	19	19
194	191	198	197	199	201	201	202	205	204	9	35	215	15	59	183	32	20
215	212	209	212	212	215	209	207	209	211	14	04	222	11	28	197	25	21
203	196	196	197	199	195	195	195	198	200	1	05	214	22	24	193	21	22
218	196	173	169	171	161	161	174	182	199	14	10	226	20	39	153	73	23
202	200	201	203	203	202	201	201	202	200	13	24	209	0	00	183	26	24
222	217	211	210	210	208	207	204	204	208	14	47	224	1	56	198	26	25
230	(223)	214	212	203	204	207	207	207	215	8	36	232	19	25	201	31	26
186	184	192	196	199	192	195	197	197	206	12	02	225	16	11	176	49	27
211	207	204	207	206	205	205	205	204	205	12	35	217	0	00	197	20	28
223	211	206	201	201	201	200	199	201	209	14	57	225	22	27	199	26	29
207	203	202	203	203	202	202	202	203	208							31	
215	210	208	208	209	208	207	207	208	210							20	
216	212	209	210	211	203	203	203	205	210								

MARCH, 1916.

28000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1*†	201	203	203	207	207	207	208	210	211	208	208	218	222	222	218
2	211	211	211	214	215	216	217	219	218	218	220	225	229	233	233
3	186	191	197	216	207	202	204	212	217	224	227	239	233	230	210
4*	185	184	184	186	187	188	190	195	200	205	211	217	216	214	210
5*	185	189	193	196	197	199	201	206	207	204	207	208	211	205	194
6	187	189	194	196	198	205	208	213	214	213	219	223	240	233	208
7	151	158	158	160	166	165	172	174	185	185	187	188	196	199	202
8	203	206	208	206	226	242	253	240	222	185	140	132	140	158	145
9	109	102	097	110	122	141	149	130	147	133	124	132	139	129	112
10	133	142	149	152	154	157	158	158	158	159	177	178	158	136	147
11	168	174	176	181	187	197	191	197	195	194	198	207	214	217	217
12	175	176	178	186	188	189	191	190	193	201	203	198	197	198	194
13*†	181	183	185	186	187	187	187	192	193	194	204	208	208	207	199
14*	187	187	187	186	190	193	202	206	214	219	225	231	232	223	217
15*†	183	185	186	186	191	188	188	195	197	201	202	207	208	202	194
16	192	193	192	192	193	196	200	209	214	214	220	223	220	217	214
17	141	132	132	142	141	146	162	170	171	183	195	195	189	186	188
18	162	155	159	160	160	161	162	167	178	181	182	192	192	176	164
19	167	167	171	176	172	173	175	178	187	195	198	192	182	174	170
20	175	179	178	179	178	181	180	183	178	174	176	176	182	183	165
21	150	168	165	167	180	178	181	182	184	177	180	192	194	189	187
22*	173	174	173	178	181	181	182	188	190	188	191	194	194	199	192
23*†	185	184	186	188	190	193	195	199	196	191	188	192	199	207	199
24	188	186	185	191	196	197	206	219	234	230	229	232	217	186	161
25	178	181	182	183	185	191	195	201	201	202	202	207	207	209	197
26	157	160	169	178	177	180	184	190	186	184	184	181	178	176	171
27*†	176	177	179	180	182	183	187	188	185	183	179	178	175	173	173
28*	187	186	189	189	189	191	191	195	194	196	205	205	206	209	210
29	204	200	188	186	202	210	207	199	183	161	154	146	147	157	153
30	129	133	148	159	150	145	159	172	165	172	185	177	160	149	146
31	167	165	167	175	168	159	161	161	167	151	150	158	163	159	159
Mean.....	173	175	176	180	183	185	189	192	193	191	193	195	195	192	185
Mean*.....	184	185	186	188	190	191	193	197	199	199	202	206	207	206	201
Mean†.....	185	186	188	189	191	192	193	197	196	195	196	201	202	202	197

APRIL, 1916.

28000 γ PLUS TABULAR QUANTITIES.

1	164	153	162	176	173	169	174	180	182	185	184	193	190	187	181
2*	173	177	177	177	178	179	180	178	172	169	179	188	198	200	198
3*	179	181	180	182	182	181	181	180	172	174	184	193	171	205	204
4*†	183	181	182	183	184	187	188	197	199	204	210	212	213	215	215
5†	186	184	184	185	188	192	192	196	202	212	225	237	243	241	234
6	191	191	182	184	189	191	189	194	199	203	207	209	214	218	217
7	192	192	189	189	192	192	199	204	206	211	211	205	205	207	198
8	176	183	185	186	187	187	194	198	181	183	181	190	193	187	179
9	174	175	177	176	179	181	187	188	189	192	199	202	202	203	201
10*†	185	186	187	187	189	194	194	194	195	201	203	198	198	197	197
11*	187	186	187	189	190	190	189	188	186	187	190	192	197	198	196
12*	187	190	190	189	191	191	193	195	197	204	208	208	202	195	192
13†	182	182	182	184	183	187	190	192	197	200	201	206	207	206	205
14	200	198	198	199	200	199	202	212	217	222	221	225	227	219	209
15	179	180	182	184	192	192	187	193	194	197	200	199	195	171	150
16	162	177	171	170	171	170	175	185	194	196	199	198	187	182	180
17*	180	180	180	181	183	179	184	181	179	187	202	208	210	205	198
18	180	180	177	190	186	173	175	185	178	180	177	177	172	174	172
19	171	172	175	180	181	183	183	185	188	193	194	196	197	198	200
20	196	197	199	201	200	198	194	192	193	198	208	213	216	208	208
21*	190	190	192	195	195	198	193	191	200	207	214	215	215	212	207
22	169	174	180	186	194	188	188	189	187	187	192	193	191	187	180
23*	195	195	191	189	184	186	193	198	204	203	198	195	197	198	189
24*†	179	183	187	187	188	188	187	184	186	190	189	184	185	188	191
25	202	199	207	197	196	201	211	208	212	216	213	178	145	110	085
26	130	127	131	129	131	136	137	138	144	155	158	153	148	151	153
27	167	167	161	164	168	162	157	156	164	170	178	180	178	165	154
28	164	147	139	141	152	146	134	121	112	117	126	129	137	146	150
29	149	136	124	132	126	124	129	119	115	116	140	143	135	124	134
30	169	158	159	160	165	164	158	155	156	163	164	164	169	167	162
Mean.....	178	177	177	179	181	180	181	183	183	187	192	193	191	189	185
Mean*.....	184	185	185	186	186	187	188	189	189	193	198	199	199	201	199
Mean†.....	183	183	184	185	186	190	190	193	196	201	206	207	209	209	208

* Ten least disturbed days.

† Five international quiet days.

MARCH, 1916.

28000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
213	210	207	210	210	210	211	210	211	210	13	32	224	0	30	200	24	1
235	242	235	218	212	192	181	189	192	216	16	10	244	21	27	178	66	2
210	201	179	149	159	162	167	173	180	199	11	42	241	18	45	142	99	3
200	191	187	188	189	186	181	180	183	194	11	26	217	22	08	177	40	4
184	172	166	161	163	163	168	177	185	189	12	36	212	20	00	161	51	5
190	177	163	159	148	141	133	138	137	189	12	49	243	21	35	127	116	6
197	(191)	184	183	186	190	200	197	200	182	14	12	202	0	13	145	57	7
123	103	126	139	146	140	190	105	096	170	6	34	258	23	03	086	172	8
110	119	116	127	111	083	083	123	131	120	8	32	153	21	30	060	93	9
149	147	138	135	144	159	160	159	163	153	11	14	189	13	57	121	68	10
201	194	188	189	187	186	182	187	185	192	14	27	223	0	20	165	58	11
187	181	173	180	184	184	181	181	181	187	10	13	219	17	37	168	51	12
192	187	187	192	194	194	194	194	191	193	12	11	210	0	00	181	29	13
198	182	174	177	178	179	183	183	183	197	12	03	239	17	27	174	65	14
187	184	182	180	184	185	190	190	190	191	11	54	209	18	14	179	30	15
206	(202)	198	200	193	169	155	143	140	196	11	42	223	23	51	136	87	16
168	171	138	129	132	144	149	154	158	159	10	47	200	19	00	124	76	17
157	143	145	150	155	162	170	174	168	166	11	56	196	16	53	136	60	18
172	164	159	162	162	158	164	181	176	174	10	06	199	17	34	156	43	19
160	152	162	169	173	180	176	155	150	173	13	37	188	23	53	146	42	20
179	170	167	170	171	166	171	174	177	176	12	34	194	0	00	146	48	21
185	181	180	182	179	178	181	183	185	184	13	32	200	0	00	171	29	22
200	197	185	177	180	181	184	184	183	190	13	26	207	18	48	174	33	23
152	140	143	147	148	153	161	167	170	185	11	38	235	16	52	138	97	24
158	123	108	104	121	142	150	150	150	172	13	32	211	18	08	096	115	25
170	168	169	173	173	175	174	175	175	175	7	28	191	0	00	155	36	26
174	178	183	186	188	188	188	188	188	182	7	32	189	13	48	173	16	27
209	210	208	206	205	201	200	200	203	199	13	49	211	0	00	186	25	28
144	136	115	102	081	078	084	116	113	153	5	12	211	19	51	072	139	29
163	162	149	153	165	165	166	167	163	158	10	20	188	0	30	127	61	30
163	163	161	154	150	149	161	158	167	161	3	15	178	20	02	143	35	31
179	172	167	166	167	166	169	170	170	180							63	
194	189	186	186	187	186	188	189	190	193							34	
193	191	189	189	191	183	184	184	185	192								

APRIL, 1916.

28000 γ PLUS TABULAR QUANTITIES.

169	169	162	156	160	164	170	176	174	173	12	17	195	1	34	150	45	1
195	186	181	181	181	179	181	181	181	182	13	36	201	9	02	168	33	2
195	179	188	185	184	183	182	182	184	184	14	13	206	8	44	170	36	3
209	198	192	190	188	187	184	184	185	195	14	19	215	1	03	181	34	4
229	222	215	209	207	202	199	200	199	208	12	18	244	1	56	184	60	5
209	198	191	185	185	187	182	188	190	196	13	54	219	2	27	178	41	6
195	188	183	186	195	177	173	182	182	194	10	16	211	22	06	168	43	7
179	173	175	177	176	177	175	175	173	182	7	29	199	23	12	173	26	8
199	196	191	192	191	188	190	188	185	189	13	29	204	1	11	172	32	9
197	197	194	192	193	192	191	190	190	193	10	49	203	0	00	184	19	10
187	174	173	173	181	184	183	183	186	186	13	37	199	17	48	170	29	11
185	181	176	181	182	182	185	185	184	191	10	48	210	17	28	174	36	12
201	196	189	192	196	196	200	198	200	195	12	42	208	1	18	182	26	13
206	194	178	171	172	170	172	172	183	199	12	56	228	20	20	162	66	14
145	146	149	156	172	185	180	154	148	176	12	26	202	15	57	138	64	15
182	172	167	172	176	178	177	179	179	179	11	03	200	0	00	150	50	16
193	179	175	173	177	180	178	177	183	186	12	34	211	18	00	173	38	17
167	158	150	150	157	167	173	178	176	173	3	48	196	19	02	148	48	18
198	196	188	188	193	192	194	189	190	188	14	30	202	0	50	170	32	19
193	188	185	183	185	178	186	188	189	196	12	07	221	20	31	177	44	20
202	193	191	190	188	188	188	188	180	197	12	30	216	24	00	169	47	21
186	186	186	189	192	194	196	195	195	188	21	57	196	0	43	166	30	22
190	189	188	183	182	184	183	181	180	191	8	54	206	24	00	175	31	23
192	191	194	199	202	203	202	201	203	191	24	00	203	0	00	176	27	24
077	094	082	077	067	093	084	072	082	146	10	10	217	19	08	043	174	25
155	148	139	144	146	166	156	157	167	146	20	28	173	0	00	116	57	26
147	148	148	150	144	141	143	163	156	160	11	25	184	20	12	135	49	27
147	131	134	154	141	120	109	128	135	136	0	05	175	22	13	091	84	28
142	140	146	149	144	146	149	148	162	136	23	20	170	9	04	107	63	29
164	164	162	164	164	165	166	167	168	163	0	08	180	1	18	155	25	30
181	176	172	173	174	175	174	175	176	181							46	
194	187	185	185	186	186	186	185	186	189							33	
206	201	197	196	197	185	185	184	184	194								

MAY, 1916.															
28000γ PLUS TABULAR QUANTITIES.															
Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	167	167	172	169	169	168	171	171	173	183	188	190	189	191	185
2	171	166	164	167	166	166	164	172	177	180	183	191	200	210	199
3	173	162	158	167	170	176	172	175	174	176	171	170	170	171	174
4*	170	170	170	172	173	173	179	183	187	186	182	182	184	189	195
5	177	180	165	168	173	176	177	177	173	171	173	170	170	170	182
6	169	164	179	173	185	187	186	192	186	195	184	169	157	152	153
7	163	165	165	168	168	172	171	172	177	185	182	181	179	171	168
8	158	172	166	163	165	163	168	168	173	179	179	180	180	177	173
9	162	162	170	169	168	173	176	180	182	182	180	175	170	166	164
10	178	177	177	175	172	170	172	174	180	185	187	183	175	170	173
11	160	186	173	164	161	161	165	167	164	157	160	162	153	153	154
12	164	162	171	166	166	162	158	146	141	147	153	155	154	162	166
13*	171	177	168	165	168	167	166	162	166	177	181	178	179	181	180
14*	166	168	171	178	179	169	165	162	160	161	178	192	192	191	188
15*	171	171	172	171	170	172	173	176	176	180	183	184	183	181	183
16	174	173	173	171	172	170	177	181	178	183	187	193	197	190	186
17	169	179	173	174	172	175	177	176	178	179	179	180	171	166	167
18*	173	174	177	178	182	179	178	177	177	179	183	187	183	185	184
19*	175	178	177	174	180	183	180	175	170	171	168	170	171	180	185
20	175	176	176	178	179	179	180	183	188	193	197	197	195	195	196
21	190	184	179	177	178	182	185	185	182	174	180	182	184	167	153
22	134	168	166	156	152	150	148	148	155	163	176	170	157	137	134
23	151	150	150	160	151	146	141	137	136	144	153	163	163	165	171
24	162	151	151	157	158	156	153	153	165	165	162	165	165	165	163
25*	154	158	158	158	161	160	160	153	155	169	179	187	187	181	175
26*	157	158	159	162	161	160	161	158	159	158	161	161	155	151	148
27*	160	160	157	158	156	155	163	168	174	176	178	177	170	170	171
28	161	162	165	162	161	161	163	169	181	188	192	195	200	187	175
29	161	165	163	161	164	165	172	175	179	186	195	194	189	182	180
30	172	172	174	177	178	179	178	176	175	181	185	182	182	185	177
31	151	159	146	152	150	155	141	137	145	148	148	143	142	146	143
Mean.....	166	168	167	167	168	168	168	169	171	174	177	178	176	174	172
Mean*.....	166	168	167	168	169	168	169	168	170	174	178	181	180	180	178
Mean†.....	168	170	169	170	171	168	169	169	171	175	181	184	181	182	181

JUNE, 1916.															
28000γ PLUS TABULAR QUANTITIES.															
1	164	166	160	160	154	150	151	152	151	156	161	162	155	157	158
2*	153	154	156	158	157	158	160	159	167	175	181	192	194	189	181
3*	165	163	163	160	158	161	162	161	166	171	182	188	184	181	180
4*	164	167	167	170	169	168	166	169	178	189	195	194	185	179	177
5*	170	171	167	169	172	169	173	171	176	190	203	208	209	206	195
6	160	159	158	162	164	165	164	159	161	165	179	187	187	187	184
7	163	173	167	163	163	165	163	157	154	157	161	159	161	167	168
8	173	167	153	154	156	159	157	154	154	155	156	154	172	170	155
9	150	160	155	152	155	155	151	143	144	151	159	160	158	158	159
10*	158	159	158	158	159	159	159	157	163	176	181	181	178	172	171
11*	166	169	171	173	173	172	175	173	171	177	184	184	185	188	183
12	166	172	176	174	171	174	174	175	175	181	189	195	190	173	173
13	166	168	159	158	158	154	165	162	165	170	175	179	183	181	173
14*	163	165	167	170	169	166	166	166	159	157	161	167	167	160	161
15*	170	179	167	164	163	165	164	164	175	178	184	187	188	185	181
16*	166	166	167	167	167	166	166	163	162	168	173	178	178	177	176
17*	175	175	172	177	172	173	177	172	165	175	186	189	192	191	195
18	173	173	175	183	179	180	186	187	183	204	227	235	229	216	205
19	161	155	161	163	169	170	168	156	154	164	172	183	175	169	166
20	151	165	158	161	156	155	151	148	150	154	166	180	176	174	170
21	155	151	164	164	158	157	161	159	162	167	167	168	165	163	164
22	152	150	151	152	152	153	154	153	157	165	172	169	166	160	144
23	144	142	140	140	142	141	145	149	149	145	150	161	159	160	162
24	145	146	145	146	148	149	152	157	163	170	173	174	169	164	164
25	178	182	175	173	172	171	171	172	178	188	196	194	187	188	176
26	161	161	165	163	162	165	164	163	162	164	168	178	177	172	170
27	159	159	158	160	160	163	165	162	160	163	169	169	169	155	152
28	162	160	168	170	163	163	164	166	170	172	181	178	168	160	161
29	161	160	161	159	157	157	159	155	149	142	147	155	168	175	171
30	166	163	159	155	163	161	163	157	150	149	153	159	161	161	160
Mean.....	162	163	162	163	162	162	163	161	162	168	175	179	178	175	171
Mean*.....	165	167	166	167	166	166	167	166	168	176	183	187	186	183	180
Mean†.....	162	164	162	161	161	162	162	161	167	174	180	185	184	181	178

* Ten least disturbed days. † Five international quiet days.

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28000γ PLUS TABULAR QUANTITIES.

16h	17h	18h	19h	20h	21h	22h	23h	24h	Mean	Maximum			Minimum			Range	Day
<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	
178	171	166	177	179	174	185	165	162	175	13	36	191	23	41	157	34	1
172	167	166	167	169	165	163	169	170	174	14	28	215	0	00	158	57	2
174	172	169	166	164	158	164	167	169	169	5	44	179	20	09	153	26	3
191	182	177	174	174	175	175	177	175	179	14	20	196	0	12	167	29	4
184	177	172	170	178	183	185	180	177	175	15	12	187	2	46	164	23	5
155	157	158	159	165	160	160	163	165	170	9	17	199	13	39	149	50	6
169	160	155	154	148	160	149	142	144	165	9	42	187	22	48	138	49	7
170	164	161	161	155	153	153	150	164	166	11	25	181	0	00	145	36	8
163	164	167	175	178	177	181	181	180	173	9	07	184	1	27	152	32	9
179	173	173	168	178	177	172	171	157	175	10	08	188	23	20	153	35	10
154	152	153	150	155	150	163	171	163	160	1	34	194	18	26	142	52	11
166	162	162	164	165	168	165	165	167	161	1	56	173	8	12	141	32	12
178	173	160	155	158	161	170	166	163	170	13	21	182	18	11	152	30	13
176	169	170	172	174	174	172	175	174	174	12	09	194	8	14	158	36	14
174	167	167	167	170	176	178	178	176	175	11	25	185	17	06	166	19	15
186	187	187	187	171	174	178	177	176	180	12	12	200	19	28	167	33	16
168	170	169	171	171	168	170	173	174	173	11	07	182	0	42	165	17	17
183	182	177	175	171	173	175	178	177	179	11	18	188	0	37	171	17	18
183	176	171	177	178	173	173	173	175	176	14	35	187	21	15	168	19	19
194	188	182	179	187	180	178	175	184	185	11	06	198	0	51	173	25	20
122	116	112	124	124	128	117	110	137	157	0	33	196	22	16	091	105	21
145	145	142	137	130	151	138	137	157	150	10	31	178	19	42	122	56	22
165	161	153	146	136	147	157	159	169	153	23	31	180	19	32	127	53	23
161	155	147	152	157	157	168	159	157	158	11	58	168	17	47	145	23	24
172	158	152	147	152	161	166	160	155	163	11	38	191	18	53	143	48	25
151	153	158	163	164	163	163	155	156	158	19	46	166	14	22	146	20	26
170	163	159	163	162	160	160	160	160	165	10	52	178	2	50	154	24	27
176	176	170	163	165	170	168	163	161	172	12	18	202	23	37	155	47	28
183	177	179	183	182	185	182	180	173	177	10	47	200	0	09	157	43	29
170	167	163	167	167	163	154	154	149	172	10	10	204	23	40	144	60	30
146	144	142	138	144	149	150	151	152	147	1	18	167	18	47	137	30	31
170	165	163	163	164	165	166	164	165	169							37	
175	170	166	166	167	169	170	168	167	171							29	
176	171	167	166	167	167	168	167	167	172								

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28000γ PLUS TABULAR QUANTITIES.

156	153	152	152	154	155	155	155	155	156	0	35	168	5	19	147	21	1
172	165	166	166	164	163	164	164	165	168	12	30	194	0	40	150	44	2
176	168	162	161	165	165	165	167	167	168	11	42	188	4	23	156	32	3
174	170	165	161	164	168	168	168	168	173	11	07	196	18	26	160	36	4
183	173	169	166	162	163	162	169	165	178	12	10	211	21	26	159	52	5
174	174	182	170	159	153	145	149	156	167	17	51	190	12	05	141	49	6
169	159	160	163	157	160	159	163	165	162	1	12	175	19	20	147	28	7
140	132	140	142	148	148	151	154	151	154	0	46	186	16	18	129	57	8
157	154	153	152	155	157	159	162	162	155	23	02	164	7	30	141	23	9
167	160	159	161	162	163	165	169	169	165	10	27	181	2	02	155	26	10
184	185	183	181	171	171	166	161	163	175	13	22	191	22	01	160	31	11
169	164	162	164	166	166	163	167	169	173	12	10	196	21	30	161	35	12
161	153	155	152	152	157	159	164	163	164	12	49	184	19	08	149	35	13
159	155	157	165	168	169	171	171	167	164	2	54	171	16	16	153	18	14
179	168	162	159	159	160	162	162	170	171	11	16	188	20	48	157	31	15
175	177	174	169	168	169	170	169	173	170	12	06	180	7	57	160	20	16
189	174	170	169	171	171	171	176	175	177	14	07	198	8	16	162	36	17
190	175	165	162	154	151	158	169	181	185	11	42	241	20	06	146	95	18
149	152	153	148	145	149	144	143	150	159	11	34	186	19	58	139	47	19
159	155	158	158	153	152	154	155	155	159	11	50	182	0	00	145	37	20
161	147	151	148	155	156	155	156	155	159	11	12	168	16	33	136	32	21
138	129	123	115	108	104	110	126	157	144	10	33	175	21	08	097	78	22
161	153	144	144	146	145	146	142	144	148	11	38	163	1	06	134	29	23
164	162	158	162	163	164	164	173	177	160	23	53	178	0	03	142	36	24
172	164	156	159	157	159	162	162	163	173	10	37	198	17	16	152	46	25
155	150	146	146	157	158	157	160	160	162	11	32	178	18	02	140	38	26
145	140	148	153	158	158	160	164	168	159	10	23	172	16	16	139	33	27
163	163	161	158	158	160	160	156	159	164	10	12	182	22	14	155	27	28
164	177	175	173	152	158	169	174	169	162	16	30	191	9	33	139	52	29
162	139	135	132	150	152	148	146	148	154	0	09	168	18	34	127	41	30
166	160	158	157	157	157	158	161	163	164							39	
176	170	167	166	165	166	166	168	168	171							33	
174	168	165	163	164	161	162	163	164	168								

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28000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	150	148	159	163	157	147	161	156	136	138	148	152	146	144	132
2	147	147	143	154	146	144	145	147	146	160	166	168	178	178	170
3	144	146	143	142	142	142	142	140	150	159	164	160	155	151	149
4	146	147	148	153	155	149	148	155	160	164	169	172	163	160	148
5	169	158	152	151	149	148	153	156	147	139	137	137	137	148	156
6	147	141	149	148	146	145	155	154	149	146	154	156	154	149	152
7*†	143	144	145	148	148	149	153	155	152	153	154	152	144	141	141
8	152	153	153	152	154	154	154	154	159	170	179	182	186	181	157
9	118	116	116	127	121	125	128	127	125	119	121	110	119	124	124
10	134	133	129	131	138	146	133	127	131	134	137	136	131	130	133
11	137	136	130	131	133	134	135	133	138	149	160	159	151	147	144
12	141	141	145	145	146	147	142	139	136	141	139	140	140	140	135
13	139	136	141	143	142	144	140	133	147	157	162	164	162	153	140
14*	150	143	142	145	141	143	145	145	142	147	155	158	160	161	160
15*†	151	149	152	151	151	148	148	146	150	163	164	163	157	153	153
16	160	155	157	159	159	162	162	155	158	164	166	169	167	165	161
17	157	159	159	157	155	157	154	144	133	143	158	158	166	173	170
18	145	156	147	148	154	148	144	140	138	154	159	157	157	161	156
19	135	161	153	158	154	152	156	157	155	157	164	173	173	165	157
20*	147	144	149	147	144	144	151	153	153	161	168	168	165	158	152
21*	149	149	154	152	148	145	152	151	147	141	149	162	170	171	160
22*	149	149	150	151	151	154	158	155	147	148	158	169	175	173	167
23	152	155	163	162	165	168	174	166	167	161	150	137	137	142	141
24	147	145	143	140	139	140	146	146	143	139	136	138	146	146	149
25	143	143	144	144	145	148	150	145	142	151	157	160	155	154	157
26	155	142	144	145	146	145	148	148	146	152	155	157	158	159	(159)
27*†	148	148	148	148	149	143	147	149	155	163	167	168	165	162	159
28*†	157	155	153	154	152	145	149	153	157	163	174	177	174	171	157
29*†	148	148	150	148	147	141	146	147	148	156	165	168	168	166	158
30	158	156	156	156	152	157	156	159	162	166	167	167	167	154	152
31*	153	155	155	154	154	153	155	154	151	149	156	160	161	162	164
Mean.....	148	147	147	149	148	147	149	148	147	152	157	158	158	156	152
Mean*.....	150	148	150	150	148	146	150	151	150	154	161	164	164	162	157
Mean†.....	149	149	150	150	149	145	149	150	152	160	165	166	162	159	154

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28000 γ PLUS TABULAR QUANTITIES.

1*†	158	158	155	155	153	153	155	156	152	153	160	169	174	180	181
2	166	162	158	165	149	132	124	121	128	142	143	139	139	134	129
3*	132	132	128	131	131	133	132	125	124	126	134	139	143	146	145
4	136	138	139	140	140	140	138	128	122	123	128	139	143	143	147
5	140	142	150	152	150	148	153	152	150	151	149	144	144	146	149
6	137	146	137	135	150	153	146	142	122	126	120	122	131	125	128
7	131	138	144	144	139	135	139	138	126	127	128	129	132	126	112
8	131	142	147	136	137	142	143	137	134	132	132	122	121	112	117
9	140	141	137	135	132	134	137	138	138	141	145	148	145	141	135
10*	144	139	148	145	144	141	142	142	140	140	144	143	138	131	130
11	141	144	144	145	141	137	135	131	130	128	128	130	135	139	145
12	141	142	144	145	143	147	151	143	145	145	144	146	148	147	139
13	149	150	145	145	143	140	140	135	144	163	176	177	173	166	155
14*	141	135	140	142	141	139	136	130	126	124	131	135	134	135	135
15*†	141	141	142	142	139	136	131	124	124	129	138	144	146	147	140
16*†	149	148	149	151	146	144	143	141	141	157	173	179	181	179	169
17*†	144	149	148	149	146	145	143	142	146	158	165	165	163	162	157
18*	148	147	146	147	149	150	150	151	154	161	163	163	165	164	161
19	154	154	157	159	157	160	161	159	166	176	175	175	175	163	134
20	127	123	122	130	134	133	130	122	120	128	127	122	126	134	133
21	134	136	142	140	137	137	136	138	126	135	149	156	155	147	136
22	128	130	129	132	134	134	136	126	117	119	130	131	126	128	146
23	117	109	108	111	114	121	118	108	110	108	103	104	107	094	089
24	120	114	109	116	116	116	119	119	114	112	115	117	118	118	117
25*†	123	124	125	126	127	129	129	127	125	128	136	142	146	143	137
26	121	125	127	137	137	137	135	128	133	138	150	151	146	138	133
27	-45	-9	005	011	019	028	035	038	047	058	064	064	065	068	071
28	087	086	090	091	087	087	094	097	102	111	115	120	122	121	115
29	108	104	100	104	106	104	103	106	108	114	112	108	086	094	099
30	113	121	120	118	113	110	107	109	123	131	138	136	131	119	103
31*	125	128	120	116	115	117	117	122	129	138	140	138	135	135	132
Mean.....	128	130	131	132	131	131	131	128	128	133	137	139	138	136	133
Mean*.....	140	140	140	140	139	139	138	136	136	141	148	152	152	152	149
Mean†.....	143	144	144	145	142	141	140	138	138	145	154	160	162	162	157

* Ten least disturbed days.

† Five international quiet days.

JULY, 1916.

28000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	r	
127	134	128	128	131	139	142	142	145	144	6	42	171	15	15	115	56	1
159	144	138	140	145	141	145	153	144	152	12	50	185	18	16	137	48	2
137	132	136	141	143	147	143	152	144	146	10	19	165	15	43	130	35	3
146	127	131	126	130	141	143	143	148	149	11	13	174	17	46	120	54	4
143	129	139	141	146	148	151	151	161	148	0	15	171	17	33	120	51	5
150	134	126	125	130	133	138	142	144	144	11	02	156	17	48	117	39	6
139	140	135	139	145	145	145	145	145	146	10	48	155	17	01	133	22	7
122	087	085	077	097	094	094	096	107	137	12	54	191	18	08	062	129	8
119	112	110	105	113	120	125	127	133	120	22	32	141	18	24	103	38	9
132	129	122	136	140	136	138	153	134	134	22	18	161	17	11	115	46	10
140	133	127	128	134	132	134	139	150	139	10	40	162	17	48	124	38	11
132	130	132	132	127	127	135	140	139	138	4	46	151	20	09	120	31	12
132	130	125	131	139	138	140	141	142	143	11	21	165	17	21	122	43	13
149	141	142	144	147	148	150	150	151	148	12	57	163	17	18	139	24	14
150	146	146	152	157	158	158	154	157	153	10	10	169	7	03	143	26	15
154	151	151	161	161	151	139	148	153	158	11	55	169	21	00	135	34	16
164	151	139	126	138	137	143	139	143	151	13	25	176	18	30	120	56	17
152	154	141	142	148	150	151	154	156	150	13	52	163	17	42	133	30	18
143	140	140	143	143	137	132	135	150	152	11	51	177	21	45	127	50	19
147	141	142	145	149	148	147	147	147	151	12	13	171	16	18	141	30	20
150	144	141	144	149	151	150	149	147	151	13	00	173	17	14	141	32	21
162	162	167	160	150	152	157	153	153	157	12	44	176	8	54	145	31	22
132	125	126	132	143	146	146	148	143	149	6	30	176	17	34	123	53	23
148	146	144	145	144	152	145	147	147	144	0	45	162	10	54	133	29	24
154	147	144	142	146	148	146	142	148	148	11	19	161	22	01	139	22	25
(149)	138	136	136	138	142	144	148	149	147	12	40	159	18	12	135	24	26
152	144	144	146	149	152	153	154	155	153	11	16	168	5	17	143	25	27
144	137	135	138	141	141	141	143	146	152	11	26	178	17	27	134	44	28
147	138	135	138	145	150	150	153	155	151	11	27	170	17	42	134	36	29
147	145	146	145	147	151	154	161	156	156	12	23	168	16	19	142	26	30
158	145	141	146	149	150	153	153	158	154	14	05	167	17	01	140	27	31
145	137	135	137	141	142	143	145	147	147							40	
150	144	143	145	148	150	150	150	151	152							30	
146	141	139	143	147	143	145	147	149	150								

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28000 γ PLUS TABULAR QUANTITIES.

177	173	167	165	168	171	174	173	169	165	13	55	183	5	36	152	31	1
118	107	109	106	111	121	127	125	126	133	0	00	173	17	00	103	70	2
136	133	135	137	140	138	141	138	134	135	13	45	149	8	05	123	26	3
149	151	159	163	154	148	144	140	146	142	18	27	172	8	50	121	51	4
145	146	146	141	125	123	132	136	144	144	6	35	157	20	05	119	38	5
124	108	108	116	123	136	131	131	138	131	4	55	159	9	06	097	62	6
113	111	122	131	135	135	139	154	143	128	22	33	195	16	10	108	87	7
114	113	121	126	129	125	127	132	132	129	2	18	152	13	42	108	44	8
134	131	132	131	134	140	138	137	148	138	23	48	154	18	54	129	25	9
129	126	132	135	135	135	142	139	141	139	2	35	152	16	30	126	26	10
146	152	136	134	144	147	144	144	149	140	16	45	157	9	53	126	31	11
137	142	142	145	149	157	159	162	151	146	22	30	166	15	46	134	32	12
148	142	142	142	139	144	146	153	154	150	11	15	179	7	17	132	47	13
131	124	125	129	134	137	139	141	141	134	0	06	146	17	14	123	23	14
136	132	134	137	140	143	144	145	145	138	13	05	147	7	54	121	26	15
158	148	146	145	147	147	147	149	145	153	12	18	183	7	56	136	47	16
156	153	145	140	143	145	144	151	148	150	10	28	166	18	38	139	27	17
162	160	154	150	150	152	153	156	155	155	12	30	167	0	00	145	22	18
125	121	120	127	123	107	105	110	114	145	12	07	178	20	55	100	78	19
123	114	112	120	128	129	137	139	137	127	22	26	141	17	20	111	30	20
133	126	(126)	(126)	(127)	(128)	(129)	(130)	130	136	12	03	156	8	05	125	31	21
131	091	059	067	082	086	112	110	104	116	14	33	166	17	45	041	125	22
095	100	100	073	077	079	088	103	119	102	4	58	123	18	21	066	57	23
115	110	108	111	118	121	121	120	122	116	0	08	124	17	48	106	18	24
132	125	123	126	125	122	122	127	126	129	12	16	147	0	00	122	25	25
150	179	161	093	068	042	037	035	008	117	16	36	189	24	00	-21	210	26
067	063	068	079	081	083	082	100	098	052	22	51	110	1	00	-53	163	27
106	103	104	106	101	108	101	103	103	103	13	50	123	5	18	085	38	28
097	095	097	095	098	105	109	122	117	104	23	00	127	12	11	075	52	29
099	101	106	111	112	114	118	121	121	116	10	38	139	15	03	096	43	30
125	118	110	109	112	112	112	121	121	123	10	18	141	18	04	107	34	31
129	126	124	123	121	125	127	128	130	130							52	
144	139	137	137	139	140	142	144	142	142							29	
152	146	143	143	145	140	141	142	142	146								

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28000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1 [†]	123	120	120	123	123	123	121	114	110	110	119	123	128	131	126
2	127	128	132	132	129	131	130	127	128	131	132	131	124	116	117
3	115	124	122	131	127	125	124	133	133	110	112	109	101	102	101
4	118	135	141	126	121	132	126	135	141	141	140	130	124	124	123
5	099	109	118	108	112	117	117	110	100	098	100	098	098	096	094
6	118	116	118	120	121	121	122	121	118	113	108	109	108	112	112
7*	123	125	124	124	134	131	128	120	112	111	114	122	124	117	117
8*	124	123	128	130	123	120	128	132	123	124	133	135	133	131	128
9	126	126	126	128	128	129	133	138	141	144	145	151	154	154	155
10	138	137	138	143	140	141	154	157	156	155	160	161	159	156	154
11	140	127	123	123	129	130	124	127	128	130	139	132	127	119	107
12	143	117	128	125	115	117	117	114	109	110	122	120	115	123	113
13*	119	124	128	131	125	120	117	107	098	093	102	115	120	125	128
14*	126	126	126	127	128	129	128	125	118	117	122	126	123	120	113
15	137	131	131	136	137	133	133	142	134	137	135	121	115	108	099
16	133	147	138	136	135	128	127	121	122	123	122	122	119	100	097
17	120	119	123	126	126	128	137	139	138	129	112	106	104	100	098
18*	133	127	135	133	132	130	129	122	114	119	125	129	126	124	123
19*†	125	128	129	129	133	131	130	125	118	113	110	115	123	127	128
20*†	135	136	136	135	132	133	134	135	137	140	148	153	153	151	145
21†	129	127	128	128	132	140	140	140	145	148	144	140	140	138	135
22	140	141	142	142	142	141	145	149	156	160	161	161	159	154	149
23	117	129	128	135	132	132	134	129	121	120	131	144	149	149	149
24	139	132	130	134	145	137	131	128	127	127	130	133	134	142	138
25	130	129	130	131	133	137	141	140	136	133	140	151	151	147	145
26	138	134	133	136	140	140	140	137	135	140	143	148	147	143	143
27	112	113	115	117	128	128	124	128	126	114	106	112	112	103	113
28*	132	126	122	126	129	128	127	120	116	113	117	124	129	133	131
29*†	130	130	132	135	136	136	133	126	117	111	108	116	127	132	130
30	149	146	150	155	151	150	153	133	119	129	131	128	108	106	106
Mean.....	128	128	129	130	131	131	131	129	126	125	127	129	128	126	124
Mean*.....	127	126	128	129	130	128	128	123	116	115	120	126	129	129	127
Mean†.....	128	128	129	130	131	133	132	128	125	124	126	129	134	136	133

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28000 γ PLUS TABULAR QUANTITIES.

1	102	103	112	117	117	117	122	121	096	095	090	092	099	102	099
2	121	127	126	135	133	128	123	124	121	118	121	122	112	085	093
3	121	121	124	125	127	130	132	132	125	129	129	125	120	121	122
4*†	124	126	128	131	132	132	131	129	122	119	122	129	131	129	128
5	130	131	132	133	132	132	134	142	147	144	141	146	142	134	129
6	105	107	113	123	147	142	134	148	147	130	118	093	097	087	067
7	061	064	071	091	095	094	094	091	083	072	080	074	054	057	073
8	109	102	097	103	101	107	111	088	093	108	096	092	100	103	092
9	128	125	110	110	112	112	106	098	096	105	110	112	113	115	111
10	112	118	120	119	120	121	119	106	109	115	119	114	107	102	091
11	117	128	127	123	118	123	121	119	118	117	114	115	115	114	113
12	114	116	118	127	116	113	111	118	125	136	139	121	108	099	091
13	111	102	106	117	126	129	126	124	116	107	107	100	091	084	073
14	097	098	100	103	115	112	111	110	109	111	110	103	101	100	097
15*	108	110	110	108	109	110	110	108	101	102	103	105	106	101	100
16*†	112	113	114	115	115	116	116	116	113	114	116	115	110	109	109
17*†	116	118	118	119	119	120	121	117	118	118	119	120	117	120	121
18*†	124	124	125	125	126	128	127	125	121	122	123	125	121	120	117
19	127	127	129	130	133	133	140	149	154	158	161	160	155	150	142
20	132	134	138	141	141	138	132	128	141	145	142	143	132	128	132
21	122	122	114	118	122	125	130	136	136	135	121	120	127	116	113
22	122	132	124	118	116	120	127	131	135	133	139	140	138	130	114
23	120	118	126	133	130	127	126	125	126	134	136	132	118	126	117
24	125	123	124	126	128	129	129	127	124	117	129	140	143	140	132
25	121	118	120	125	128	127	126	125	(122)	(123)	(124)	(126)	(124)	(122)	(120)
26*	131	128	128	131	130	131	131	128	125	125	127	131	131	131	131
27*	128	128	129	130	130	129	128	128	125	125	129	130	127	122	119
28*†	133	134	137	138	139	140	138	135	133	133	133	135	133	129	127
29	132	133	136	140	144	143	145	148	153	158	162	163	143	133	131
30*	124	123	123	123	123	122	123	126	125	126	129	130	123	120	120
31*	123	125	125	129	134	134	136	139	138	141	142	143	142	137	127
Mean.....	118	119	120	123	125	125	125	125	123	124	124	123	119	115	112
Mean*.....	122	123	124	125	126	126	126	125	122	122	124	126	124	122	120
Mean†.....	122	123	124	126	126	127	127	124	121	121	123	125	122	121	120

*Ten least disturbed days.

†Five international quiet days.

SEPTEMBER, 1916.

28000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
124	119	117	120	122	120	125	125	127	121	13	13	134	8	24	108	26	1
116	115	109	112	105	084	081	108	117	119	11	42	133	21	00	076	57	2
076	073	080	090	102	110	115	130	125	111	7	59	137	16	05	067	70	3
123	082	068	078	069	077	084	098	098	114	1	50	148	17	55	051	97	4
094	099	104	107	108	112	113	115	117	106	23	54	120	15	00	093	27	5
117	121	115	106	105	117	119	120	123	116	6	40	123	11	40	100	23	6
116	113	115	120	122	123	125	126	125	121	4	44	139	13	03	104	35	7
123	112	111	114	117	121	124	128	127	125	13	26	136	16	06	109	27	8
147	134	126	126	134	135	134	135	139	137	14	21	157	0	00	126	31	9
140	133	137	136	117	132	136	133	141	144	14	15	169	19	30	108	61	10
109	115	106	093	094	102	117	117	133	120	0	00	152	18	02	083	69	11
095	095	075	087	105	120	109	113	120	113	0	00	154	17	40	070	84	12
122	112	107	109	119	125	127	128	127	118	14	11	131	9	32	090	41	13
110	110	120	125	127	128	131	130	136	124	24	00	142	16	10	105	37	14
105	113	121	124	128	134	143	139	134	128	21	12	149	14	30	098	51	15
103	106	115	096	121	122	128	120	115	121	1	24	152	13	55	090	62	16
105	108	112	113	124	124	125	127	129	120	6	42	141	14	15	095	46	17
119	113	111	120	126	127	126	125	127	125	2	54	141	17	36	108	33	18
124	121	123	128	131	131	133	135	135	126	22	42	136	8	58	110	26	19
138	131	130	134	137	137	134	131	129	138	12	25	153	17	00	128	25	20
135	138	143	144	140	140	143	145	143	139	9	06	149	2	30	126	23	21
148	145	141	143	124	107	111	117	121	142	11	20	162	21	06	102	60	22
144	138	140	139	143	132	138	139	129	135	14	52	151	0	42	116	35	23
134	134	133	132	136	136	138	132	133	134	4	10	150	7	56	126	24	24
140	128	134	140	140	129	123	130	133	136	12	04	155	23	20	120	35	25
136	117	133	124	123	098	085	123	115	131	11	40	149	21	33	078	71	26
121	120	122	127	127	127	131	134	135	121	21	22	137	13	27	099	38	27
129	127	128	128	128	124	121	127	128	126	13	59	134	7	58	104	30	28
131	131	134	138	140	139	141	144	147	131	23	50	150	10	14	106	44	29
111	105	099	090	080	089	085	115	103	120	4	01	160	19	36	066	94	30
121	117	117	118	120	120	122	126	127	125							46	
124	119	120	124	127	128	129	130	131	125							32	
130	128	129	133	134	126	125	128	128	130								

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28000 γ PLUS TABULAR QUANTITIES.

087	103	111	111	108	110	111	130	127	108	22	58	135	15	30	085	50	1
101	115	118	121	123	120	120	121	122	119	4	18	137	13	47	084	53	2
118	118	122	125	125	123	120	121	124	124	9	03	134	1	47	118	16	3
125	130	137	138	134	133	134	132	132	130	17	37	140	10	05	116	24	4
129	113	105	104	102	097	094	111	117	126	9	00	153	21	42	091	62	5
065	029	050	060	050	029	040	048	075	092	7	42	156	16	22	097	149	6
062	050	061	089	087	086	100	100	110	079	23	40	127	13	04	038	89	7
089	...	...	...	...	...	...	111	115	...	24	00	128	7	45	079	49	8
104	107	111	111	108	107	110	112	114	110	0	15	130	7	34	092	38	9
091	103	106	112	113	115	117	115	120	112	10	15	122	15	03	085	37	10
097	096	107	114	108	108	112	123	119	115	1	25	131	15	34	093	38	11
098	098	097	099	077	077	094	101	107	108	10	36	140	19	46	066	74	12
064	060	037	025	057	073	079	083	097	091	5	45	132	18	18	012	120	13
094	097	098	099	101	102	104	104	109	104	4	15	124	15	21	093	31	14
100	102	104	107	109	109	109	110	112	106	1	45	115	14	05	100	15	15
109	(110)	109	111	112	112	115	115	115	113	22	02	116	14	45	108	8	16
120	123	123	123	123	123	124	124	124	120	22	28	125	0	10	114	11	17
119	122	126	127	128	127	127	127	127	124	6	02	128	14	16	115	13	18
139	137	141	141	135	131	133	132	132	140	11	24	162	0	00	126	36	19
138	125	128	128	126	121	116	118	119	132	9	30	147	21	36	110	37	20
117	116	111	121	125	123	117	119	123	122	7	51	141	2	18	111	30	21
108	118	114	120	121	121	135	128	124	125	11	05	141	15	02	100	41	22
120	117	121	124	125	123	122	124	128	125	11	00	140	12	20	115	25	23
117	113	112	122	131	132	131	127	118	127	12	19	145	16	02	108	37	24
(120)	121	125	129	131	131	131	131	131	125	20	45	132	0	02	110	22	25
128	128	127	120	114	115	125	127	129	127	13	54	134	19	40	113	21	26
120	123	124	127	129	129	130	130	132	127	23	42	133	14	12	118	15	27
126	128	128	129	127	128	128	128	131	132	5	18	142	15	30	125	17	28
120	106	(110)	(112)	(114)	(116)	118	116	123	133	10	52	164	17	00	102	62	29
122	122	126	128	129	125	126	123	123	124	11	53	130	13	36	118	12	30
121	120	122	122	122	121	113	111	116	128	12	09	144	22	20	109	35	31
109	108	110	113	113	112	114	116	119	118							42	
119	121	123	123	123	122	123	123	124	123							17	
120	123	125	126	125	119	120	120	121	123								

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28000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	1 ^h	14 ^h	15 ^h
1*	119	133	131	130	127	127	131	136	137	138	138	139	131	120	121
2	120	131	129	131	132	134	138	144	147	145	136	124	116	107	113
3	128	133	138	140	134	133	134	130	117	103	093	103	113	109	103
4	110	117	121	121	129	129	132	134	130	133	133	121	108	103	103
5	119	126	117	123	127	126	122	126	132	136	137	(132)	(124)	(116)	(108)
6	110	116	122	128	123	125	123	123	123	116	123	126	112	112	099
7	111	109	111	115	118	117	123	122	125	124	118	107	112	116	116
8	116	117	110	111	115	118	124	132	131	127	116	096	093	095	099
9	110	110	113	114	118	119	119	119	119	115	114	114	115	097	091
10	091	099	110	107	108	110	115	120	120	114	109	114	113	105	102
11	107	106	106	108	111	111	113	114	107	104	104	108	111	109	104
12	083	081	088	096	104	110	104	119	117	120	124	118	132	137	156
13	096	095	098	097	100	107	106	113	117	110	108	108	111	100	099
14*	104	105	106	109	111	111	116	120	115	101	088	088	087	093	089
15*	106	107	105	106	108	111	116	119	126	113	107	104	103	102	100
16*	107	110	113	116	117	119	124	129	130	130	124	117	114	117	120
17*	109	106	107	115	117	121	124	125	121	122	124	127	122	121	118
18	105	104	112	116	109	114	115	118	125	125	119	111	108	107	107
19*	101	100	103	106	108	108	111	117	122	122	114	117	121	115	100
20*	103	106	109	113	116	117	118	121	125	120	119	120	112	104	100
21*	096	097	102	105	110	113	119	126	126	123	123	122	110	103	098
22*	099	101	104	104	111	108	106	109	109	109	106	104	102	100	102
23	093	097	099	101	104	104	112	117	117	118	112	108	103	093	086
24*	092	093	093	094	096	100	105	113	115	115	117	116	110	115	101
25	108	109	108	109	111	112	114	119	116	112	110	112	105	113	102
26	087	087	094	101	105	113	117	122	124	121	119	111	103	094	097
27	090	093	090	093	097	099	101	115	119	122	120	117	104	094	088
28	081	078	078	083	086	086	090	101	109	109	098	092	089	088	093
29	096	093	095	098	097	097	104	113	118	105	097	096	101	101	093
30	091	093	096	091	090	093	094	103	086	074	070	062	053	056	051
Mean.....	103	105	107	109	111	113	116	121	121	118	114	111	108	105	102
Mean*.....	103	106	107	110	112	114	117	122	123	119	116	115	111	109	105
Mean†.....	103	107	108	110	112	114	118	123	124	119	117	117	110	107	102

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28000 γ PLUS TABULAR QUANTITIES.

1	076	076	079	084	104	101	101	103	(106)	(106)	101	080	056	039	042
2	075	071	074	077	075	082	091	102	107	099	079	075	056	037	049
3	073	074	074	082	090	089	092	092	096	082	065	069	056	054	062
4	070	075	081	083	083	083	084	089	089	079	090	065	063	061	065
5	...	...	...	...	...	...	...	...	...	...	093	083	074	071	073
6*	077	079	079	084	085	085	097	097	096	096	092	084	079	082	083
7	086	087	087	088	089	092	095	100	103	104	105	107	(098)	(089)	(080)
8*	080	077	075	079	079	079	081	088	087	083	077	082	080	082	077
9*	086	086	088	093	091	091	093	099	104	104	111	107	097	088	087
10†	083	081	079	(082)	(085)	(087)	(090)	(094)	097	097	096	086	077	077	084
11	105	103	105	104	103	105	108	115	119	117	116	113	104	101	104
12	099	084	091	099	099	101	115	125	133	122	107	092	085	087	102
13	085	091	098	102	102	103	104	113	117	115	110	106	091	091	096
14	105	100	107	111	111	110	111	(122)	125	126	123	105	094	098	109
15	106	110	102	104	108	(108)	(106)	(105)	106	109	111	100	084	089	098
16	099	101	101	098	100	100	108	113	112	110	096	083	081	085	092
17	094	104	098	098	098	100	103	112	(114)	111	102	091	084	081	079
18	100	101	103	105	108	110	110	114	111	103	091	084	087	096	104
19*	108	106	106	106	111	110	106	114	117	114	108	107	110	113	112
20*	092	095	097	098	098	099	102	110	115	119	121	131	136	136	129
21*	101	099	100	100	105	112	107	109	106	106	107	106	106	106	108
22*	108	108	109	112	114	113	115	114	115	111	111	115	118	117	114
23*	114	115	115	116	117	117	116	118	118	118	114	113	115	116	117
24*	124	127	128	132	133	131	130	134	136	134	133	131	132	137	133
25	114	115	117	122	123	124	123	123	120	123	131	134	127	119	113
26*	102	105	109	110	111	107	109	109	110	115	122	121	116	113	116
27	104	102	101	101	108	111	111	116	113	111	098	075	078	080	090
28	096	089	092	095	101	102	104	105	104	103	118	125	123	115	105
29	082	087	091	095	100	098	098	101	100	103	109	113	109	100	095
30	088	092	098	101	103	105	106	108	110	110	108	105	090	085	077
31	088	088	088	088	095	096	097	103	104	099	103	104	103	097	096
Mean.....	094	094	096	098	101	102	104	108	109	108	105	100	094	092	094
Mean*.....	099	100	101	103	104	104	106	109	110	110	110	110	109	109	108
Mean†.....	097	096	096	099	101	103	105	106	106	106	104	101	099	100	101

* Ten least disturbed days.

† Five international quiet days.

NOVEMBER, 1916.

28000 γ PLUS TABULAR QUANTITIES.

16h	17h	18h	19h	20h	21h	22h	23h	24h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
123	124	118	115	124	126	125	124	122	127	11	32	140	18	06	112	28	1
119	119	121	109	124	128	129	128	128	127	8	51	149	18	30	104	45	2
106	110	110	101	090	090	102	108	109	114	3	28	142	19	50	085	57	3
078	(070)	(060)	069	072	090	090	101	109	107	7	23	137	18	03	054	83	4
(104)	100	096	114	105	108	098	104	109	117	10	08	145	17	17	089	56	5
089	080	092	094	107	114	105	106	108	112	11	28	131	16	20	071	60	6
115	106	106	111	115	121	117	107	110	115	9	20	126	22	38	103	23	7
111	109	103	096	105	109	111	110	111	111	7	54	134	13	53	089	45	8
098	099	097	091	093	091	090	089	090	105	7	54	121	14	03	084	37	9
105	103	105	105	107	108	106	106	110	108	8	04	121	1	00	090	31	10
100	104	107	108	102	096	098	095	085	105	7	38	115	23	45	081	34	11
129	136	123	116	115	101	102	096	093	112	14	37	173	1	24	079	94	12
101	101	104	105	108	108	106	106	104	104	8	26	121	1	35	093	28	13
088	096	106	110	109	106	106	105	108	103	7	13	121	10	27	085	36	14
098	108	108	107	110	111	111	110	109	109	7	40	129	14	20	095	34	15
114	110	112	(110)	(109)	(107)	(105)	107	108	115	8	00	131	22	32	105	26	16
116	114	118	111	109	118	118	115	110	117	11	42	131	1	31	104	27	17
110	110	110	093	096	105	105	105	103	110	9	19	128	18	26	092	36	18
093	104	108	109	110	109	109	109	109	109	12	34	124	15	38	090	34	19
095	099	102	106	110	105	096	092	096	108	8	25	127	22	41	090	37	20
097	097	101	102	094	087	089	095	099	106	8	00	126	21	00	084	42	21
104	105	110	111	110	105	099	096	095	105	4	48	117	22	50	094	23	22
071	078	085	085	085	078	082	089	092	096	9	48	119	15	33	068	51	23
101	097	099	099	100	101	103	104	108	104	10	42	118	0	24	092	26	24
103	102	082	067	077	084	096	090	089	102	7	45	120	18	06	061	59	25
096	095	095	101	113	104	098	094	086	103	8	03	127	23	50	082	45	26
100	108	107	091	054	046	053	075	078	094	11	39	128	20	28	043	85	27
094	097	096	081	085	085	088	091	097	091	9	17	111	0	05	076	35	28
078	069	072	077	081	091	085	090	099	094	8	33	120	16	36	068	52	29
053	060	045	057	065	068	069	077	085	074	7	18	106	17	41	038	68	30
100	100	100	98	99	100	100	101	102	107							45	
103	105	108	108	108	108	106	106	106	110							31	
101	103	105	106	107	104	101	101	103	109								

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28000 γ PLUS TABULAR QUANTITIES.

032	035	036	026	040	062	065	068	085	071	10	03	108	18	24	023	85	1
042	039	058	068	070	074	080	071	071	072	8	57	109	16	28	029	80	2
068	072	073	074	073	073	069	079	074	075	8	40	097	13	09	048	49	3
059	(072)	(078)	(080)	(081)	(082)	(082)	(083)	083	078	8	05	091	13	14	057	34	4
071	076	078	076	073	081	082	080	078	---	---	---	---	---	---	---	---	5
080	079	078	081	087	090	089	088	088	086	7	00	100	0	22	076	24	6
(070)	060	064	074	079	080	079	078	081	086	11	27	108	17	10	060	48	7
077	077	082	082	081	078	078	081	086	080	7	25	089	2	08	072	17	8
082	080	082	082	083	085	079	076	083	090	10	47	113	22	27	075	38	9
086	094	095	097	101	105	106	106	109	091	23	06	110	13	24	075	35	10
107	110	112	109	097	093	090	096	108	106	8	45	120	21	44	087	33	11
108	102	097	081	(080)	(078)	(076)	077	081	097	8	17	136	22	46	073	63	12
103	109	109	106	109	107	102	104	105	103	8	05	119	0	17	082	37	13
113	109	107	106	110	109	107	106	105	110	9	52	128	12	41	083	35	14
093	052	066	082	092	088	090	097	097	096	1	10	117	16	35	049	68	15
100	095	090	087	085	088	093	096	095	096	7	12	116	12	13	079	37	16
074	076	085	092	095	093	097	097	098	095	8	00	116	16	21	072	44	17
104	104	103	098	099	103	106	108	108	102	7	50	115	11	33	082	33	18
112	111	100	104	108	108	104	100	094	108	8	50	118	23	22	090	28	19
115	110	103	100	102	100	100	104	106	109	13	32	137	0	35	090	47	20
109	105	106	110	111	112	108	109	109	107	5	12	115	1	00	097	18	21
114	115	115	113	113	112	112	114	114	113	14	35	118	1	00	107	11	22
117	118	118	119	118	116	118	120	123	117	23	54	124	11	09	111	13	23
126	119	118	114	111	110	110	111	113	126	13	15	139	19	33	109	30	24
097	087	087	090	090	091	097	102	102	111	11	03	136	16	40	084	52	25
119	115	103	098	099	106	105	098	109	109	10	32	123	22	27	096	27	26
095	096	099	098	088	079	078	070	073	095	8	10	117	23	35	065	52	27
104	091	076	076	075	077	086	077	080	097	11	30	126	17	25	071	55	28
095	095	089	081	085	087	090	094	094	095	11	40	115	0	33	080	35	29
084	073	074	083	086	079	081	077	091	092	9	00	113	16	53	057	56	30
100	097	076	078	088	089	082	083	086	093	10	50	108	17	45	065	43	31
093	090	089	090	091	092	092	092	095	097							41	
105	103	100	100	101	102	100	100	102	104							25	
101	102	102	104	106	098	096	097	098	101								

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34000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	576	576	579	585	583	585	587	589	578	572	573	582	585	584	584
2*	584	585	587	588	587	588	588	588	583	577	583	583	585	584	584
3†	579	579	580	584	582	584	584	585	583	574	586	572	571	572	573
4	578	577	574	579	575	577	580	583	574	563	566	560	564	564	564
5	578	575	575	579	575	584	585	585	577	572	584	573	571	573	568
6	584	581	581	583	579	579	581	583	576	569	562	573	573	574	573
7	589	582	580	579	579	579	578	580	573	565	562	574	578	580	580
8	588	588	587	587	585	581	580	586	580	577	576	577	579	585	587
9	588	590	590	589	588	586	586	587	579	575	571	559	567	575	576
10*	588	588	590	591	587	586	585	587	580	575	569	579	579	580	581
11*	591	591	592	592	592	591	589	589	578	572	568	578	583	582	586
12	589	591	591	593	592	591	589	588	578	575	568	568	570	576	581
13	588	591	591	593	592	592	592	592	581	577	572	568	570	580	588
14	590	589	592	597	594	595	594	593	588	582	581	579	572	579	588
15	589	590	594	601	597	598	598	599	589	581	583	588	585	582	583
16*	592	592	594	597	594	595	597	595	585	581	581	584	582	582	582
17*	593	591	591	595	593	594	595	595	586	580	573	568	569	568	569
18*†	591	586	586	588	593	591	591	591	583	577	573	578	578	580	581
19*†	585	584	582	584	582	582	585	587	585	579	571	574	580	576	582
20	586	586	585	586	583	583	585	586	577	571	564	570	572	573	576
21*	582	582	583	583	582	581	581	583	577	566	570	571	572	575	576
22	582	581	580	580	577	575	577	578	570	559	554	557	559	554	559
23*	579	579	583	584	582	577	582	583	578	574	569	573	577	574	577
24	582	582	583	583	582	578	577	576	568	561	562	571	573	572	572
25	576	583	581	584	576	583	579	584	574	565	571	576	574	573	582
26	584	588	587	587	585	585	585	585	583	577	573	573	573	574	582
27	587	587	588	590	595	588	585	585	583	574	574	577	577	575	584
28	585	587	588	593	593	588	588	587	580	573	567	572	574	573	579
29	585	586	588	590	591	589	590	596	591	586	584	580	586	585	589
30	588	588	591	595	591	598	598	598	589	581	576	571	571	573	575
31*†	588	588	589	590	591	593	596	596	596	590	588	580	578	578	579
Mean.....	585	585	586	588	586	586	587	588	581	574	570	573	575	576	579
Mean*.....	587	587	588	589	588	588	589	589	583	577	572	575	577	577	579
Mean†.....	585	584	585	587	587	588	589	589	586	579	572	573	576	576	579

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34000 γ PLUS TABULAR QUANTITIES.

1	589	589	589	592	595	598	599	601	592	587	581	587	589	588	582
2	588	587	587	588	596	599	599	596	587	582	586	589	587	585	579
3*	591	589	589	592	592	591	596	598	599	598	599	599	595	589	587
4	600	593	590	592	592	592	592	593	589	587	586	588	586	586	589
5	599	597	600	596	597	598	594	594	594	592	592	592	586	582	583
6	600	599	597	596	593	592	593	594	593	591	589	591	594	599	599
7*†	602	602	602	602	600	599	596	595	590	584	582	588	586	588	588
8	596	595	595	595	591	592	595	592	588	590	588	588	586	586	586
9	602	602	601	602	601	600	596	596	590	590	589	590	592	599	594
10	600	602	603	601	601	597	597	600	592	589	583	586	582	579	581
11*†	591	593	595	600	600	600	599	595	591	587	589	586	582	583	587
12	592	592	592	594	599	601	602	602	593	589	584	580	577	580	582
13	597	595	600	600	603	603	604	605	603	599	595	595	593	593	590
14*†	595	594	595	595	595	598	598	600	594	590	586	583	581	578	579
15*	593	592	592	593	593	593	595	603	603	603	598	593	580	580	581
16*†	594	593	593	591	593	595	595	596	591	584	580	577	572	570	572
17*†	594	594	594	594	596	595	595	594	(589)	585	584	585	586	582	582
18*	594	595	594	594	594	594	595	596	591	590	585	582	580	580	580
19	591	591	587	590	586	583	583	582	581	581	585	583	582	582	583
20	595	600	602	597	592	590	587	585	590	591	591	594	588	582	582
21	593	595	596	594	585	585	586	587	592	592	591	589	588	587	579
22	593	594	594	595	593	595	586	593	591	584	584	584	584	581	583
23	595	594	595	594	591	585	585	594	594	595	595	594	584	580	581
24	589	590	593	598	593	592	593	595	588	589	589	593	585	584	585
25	594	596	596	598	595	590	594	590	586	584	576	577	582	586	587
26	587	588	588	590	590	590	587	590	587	586	590	599	596	595	597
27*	596	592	593	601	598	592	592	596	589	582	577	586	587	588	588
28*	590	590	593	598	599	599	599	598	589	584	578	578	574	571	575
Mean.....	594	594	594	595	595	594	594	595	591	589	587	588	585	584	584
Mean*.....	594	593	594	596	596	596	596	597	593	589	586	586	582	581	582
Mean†.....	595	595	596	596	597	597	597	596	591	586	584	584	581	580	582

* Ten least disturbed days.

† Five international quiet days.

JANUARY, 1915.

34000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
585	585	587	588	589	589	588	587	585	583	7	50	589	9	46	570	19	1
583	579	582	582	584	583	582	583	583	581	7	00	588	10	48	561	27	2
574	574	575	584	584	578	579	579	583	578	7	34	585	10	45	562	23	3
564	571	574	575	578	575	575	577	578	572	7	43	583	10	40	552	31	4
572	572	577	580	583	575	583	584	588	577	7	09	589	10	26	562	27	5
565	570	570	573	575	575	575	578	584	576	0	06	585	10	13	553	32	6
580	576	576	579	584	579	579	582	589	578	0	37	590	10	16	554	36	7
585	580	581	586	588	585	587	590	590	584	23	00	590	10	09	569	21	8
579	579	579	580	581	579	579	580	588	580	0	30	590	11	10	553	37	9
587	585	586	587	587	587	587	588	590	585	3	40	592	10	27	567	25	10
589	581	586	588	591	584	584	587	589	586	3	00	592	10	25	567	25	11
588	586	578	581	588	587	589	591	591	584	3	30	593	11	03	567	26	12
591	587	581	587	589	588	587	587	589	586	3	39	593	11	50	568	25	13
592	592	593	594	595	593	592	592	594	590	3	16	597	12	21	569	28	14
592	592	593	593	595	594	593	593	593	591	3	36	601	14	00	579	22	15
584	584	590	592	594	593	595	595	595	590	7	28	597	10	28	578	19	16
572	579	583	589	590	593	591	589	590	585	7	30	595	12	00	567	28	17
581	579	583	585	590	593	590	586	586	585	7	33	593	10	28	573	20	18
581	577	580	584	586	586	586	586	586	582	7	26	591	10	40	571	20	19
577	572	575	578	583	582	582	582	583	579	2	43	587	11	03	560	27	20
581	575	573	573	575	573	577	582	582	577	7	30	583	10	25	562	21	21
566	568	568	568	571	571	572	575	580	570	1	37	582	11	04	552	30	22
583	584	582	583	583	581	577	581	583	580	16	00	584	10	42	565	19	23
574	571	569	571	572	572	571	569	569	573	3	08	583	10	05	561	22	24
584	573	571	583	583	583	582	583	584	579	15	15	584	9	18	561	23	25
577	580	584	587	587	584	578	584	588	582	1	41	589	11	09	569	20	26
587	587	587	589	588	585	584	588	585	585	4	49	599	9	54	573	26	27
587	584	585	584	585	585	584	585	585	583	3	48	595	10	29	564	31	28
591	590	589	594	590	591	590	586	593	589	7	35	598	11	23	579	19	29
585	586	586	588	590	589	589	588	588	586	7	35	599	11	09	567	32	30
585	589	591	596	595	596	596	591	591	590	17	51	598	12	40	576	22	31
581	580	581	584	589	584	584	582	587	582							25	
583	581	584	586	588	587	586	587	588	584							23	
581	580	582	586	588	589	588	587	586	583								

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34000 γ PLUS TABULAR QUANTITIES.

581	577	578	592	598	599	596	591	592	590	7	34	601	14	26	577	24	1
578	582	589	593	597	598	598	596	593	590	5	15	602	15	19	577	25	2
583	585	587	592	597	599	598	596	599	593	10	16	601	14	55	581	20	3
590	590	590	592	590	589	592	600	603	591	23	32	603	12	08	584	19	4
588	588	592	593	594	596	597	597	599	593	0	12	602	12	51	582	20	5
600	600	600	604	604	603	601	603	604	597	19	00	604	10	19	589	15	6
589	590	590	590	590	590	590	592	595	592	4	00	602	10	41	582	20	7
580	591	592	595	596	591	592	601	602	592	23	39	604	15	35	578	26	8
600	588	589	590	595	596	594	595	600	595	0	05	608	10	03	588	20	9
586	591	591	591	591	590	591	591	592	592	2	12	606	13	21	577	29	10
589	591	593	593	595	593	591	592	591	592	4	00	600	12	04	581	19	11
589	591	593	599	602	596	594	594	596	592	6	49	603	12	30	577	26	12
593	593	595	599	603	603	599	595	595	598	8	00	605	13	16	590	15	13
580	584	588	592	594	594	593	594	594	591	7	13	602	13	36	576	26	14
584	589	589	590	593	594	594	594	(593)	592	9	19	604	13	08	578	26	15
580	586	593	594	594	594	595	594	594	588	7	13	596	13	30	570	26	16
582	590	591	591	594	594	594	594	595	591	6	05	598	14	10	582	16	17
580	579	580	581	589	591	591	591	593	588	7	33	596	13	12	579	17	18
582	582	583	585	595	583	586	592	597	586	24	00	599	9	36	572	27	19
581	582	588	592	594	595	595	592	592	591	1	52	605	16	00	580	25	20
581	589	589	591	592	592	592	593	594	590	1	58	598	14	26	576	22	21
586	580	580	588	590	591	594	591	590	588	5	07	598	16	12	574	24	22
582	585	586	589	587	586	586	590	596	589	23	30	597	13	42	574	23	23
592	593	588	589	588	594	594	594	595	591	3	40	598	12	51	583	15	24
586	584	585	587	587	586	585	589	586	588	3	39	598	11	52	575	23	25
599	597	588	597	590	596	592	594	599	592	14	53	599	9	15	585	14	26
589	588	589	596	597	595	589	588	589	591	4	07	603	10	25	576	27	27
578	579	587	589	590	589	587	587	588	587	7	00	599	13	50	571	28	28
586	587	589	592	594	594	593	594	595	591							22	
583	586	589	591	593	594	592	592	593	591							22	
584	588	591	592	593	597	596	595	596	591								

MARCH, 1915.

34000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1*	583	588	588	590	590	590	590	590	584	580	579	579	578	576	575
2*†	578	576	579	580	580	580	581	580	578	575	569	570	571	570	575
3*†	578	576	576	578	578	579	580	580	578	575	566	565	564	565	567
4*	578	579	579	581	580	580	581	580	576	575	572	569	565	564	564
5*	586	580	580	581	579	579	580	579	576	566	565	564	562	562	560
6	579	578	578	578	575	576	575	575	567	566	565	565	565	564	564
7	577	575	578	565	568	572	575	575	566	568	575	575	575	574	569
8	590	590	590	588	578	587	575	577	577	577	581	584	578	583	578
9	587	583	592	595	591	588	587	586	584	582	587	587	579	579	579
10	592	590	591	596	595	591	591	591	582	579	582	588	584	588	587
11	590	590	591	591	592	587	583	582	577	577	578	579	579	579	578
12	582	588	590	591	591	590	588	588	578	578	578	578	578	578	578
13*	575	575	578	581	581	579	579	578	574	572	566	566	566	570	575
14*†	575	574	578	579	578	579	579	578	565	558	554	554	551	551	558
15*†	569	570	574	578	578	579	579	578	566	564	561	563	561	563	565
16	565	566	569	577	577	578	578	578	574	568	565	565	564	563	568
17	579	578	578	578	578	578	579	579	577	575	565	564	558	554	554
18	573	570	569	575	575	575	575	577	569	568	564	563	558	563	563
19	564	566	575	577	577	577	578	579	577	566	568	566	563	564	564
20	(577)	(577)	(577)	(577)	577	578	580	578	576	576	576	575	562	555	554
21	577	576	575	572	567	577	580	580	578	578	578	577	567	568	568
22	577	577	589	588	588	588	589	588	582	580	580	582	578	586	582
23	590	582	581	582	580	582	589	582	582	581	580	580	576	576	584
24	589	584	588	581	582	588	589	589	588	585	590	594	595	593	591
25	588	593	591	594	593	591	593	591	590	591	591	593	590	586	588
26	594	594	600	602	595	599	591	590	591	590	591	591	590	590	591
27*	602	602	603	602	602	602	602	602	600	599	600	600	594	593	594
28†	594	599	599	602	600	602	600	595	590	590	590	591	591	591	591
29	603	603	604	607	606	606	606	606	606	608	608	609	606	606	615
30	597	604	608	615	617	617	616	607	603	598	603	604	604	607	607
31*	611	607	611	616	615	615	615	615	607	603	604	606	604	605	608
Mean.....	584	584	586	587	586	587	587	586	581	579	578	579	576	576	577
Mean*.....	584	583	585	587	586	586	587	586	580	577	574	574	572	572	574
Mean†.....	579	579	581	583	583	584	584	582	575	572	568	569	568	568	571

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34000 γ PLUS TABULAR QUANTITIES.

1	604	607	608	613	616	619	617	615	606	603	600	591	589	582	587
2	603	603	606	606	607	613	615	615	615	615	613	615	611	607	603
3	616	606	603	606	608	610	613	615	617	613	612	606	602	594	603
4	613	612	611	611	608	607	613	613	615	613	610	606	603	603	604
5*	613	612	607	607	606	611	612	607	603	602	600	602	603	598	603
6	605	605	605	605	602	602	602	602	601	601	601	603	603	603	603
7	614	614	614	614	611	610	610	604	601	604	602	604	604	601	610
8	621	618	616	617	614	613	614	608	603	618	613	622	613	610	607
9	615	615	615	616	613	612	611	604	599	(600)	601	615	615	620	619
10†	615	615	617	618	615	617	617	614	611	611	610	613	614	617	623
11*†	611	610	617	618	617	614	613	611	609	610	613	616	616	615	614
12*†	610	612	613	616	617	617	618	614	611	609	611	621	619	619	619
13*†	611	611	611	612	612	612	612	611	611	611	613	613	615	615	615
14*	616	616	616	618	619	619	619	615	612	612	608	611	611	612	616
15	612	611	612	612	614	620	626	618	615	615	616	616	616	616	616
16	620	622	618	615	624	627	629	627	618	614	615	615	614	622	624
17	633	628	627	627	622	621	623	618	615	618	621	620	620	620	625
18	614	612	612	619	608	615	615	607	608	611	611	610	610	609	611
19	624	617	618	618	623	626	626	622	621	623	623	626	622	625	(625)
20	621	621	622	619	619	626	619	622	619	623	624	627	628	631	637
21	625	623	627	621	618	621	622	625	623	626	629	629	630	626	628
22	630	629	629	628	627	626	624	629	631	633	625	625	629	630	624
23	630	630	630	631	627	626	626	625	627	633	635	632	621	627	628
24*	630	629	632	630	627	629	628	623	621	628	630	630	627	628	630
25*	631	629	628	633	629	626	620	615	619	627	630	629	631	633	632
26	628	623	629	633	621	630	626	624	624	625	633	634	633	639	647
27*	635	636	637	637	636	636	630	626	622	621	621	621	620	624	626
28*†	634	633	635	637	638	638	636	629	626	627	628	627	628	630	637
29*	630	632	632	639	638	639	641	634	630	622	620	619	619	620	634
30	628	628	628	630	634	638	635	631	621	620	620	620	619	625	632
Mean.....	620	619	619	620	619	621	620	617	615	616	616	617	616	617	619
Mean*.....	622	622	623	625	624	624	623	618	616	617	617	619	619	620	623
Mean†.....	616	616	619	620	620	620	619	616	614	614	615	618	618	619	622

* Ten least disturbed days.

† Five international quiet days.

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34000γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>h</i>	<i>m</i>	<i>γ</i>	<i>h</i>	<i>m</i>	<i>γ</i>	<i>γ</i>	
572	574	576	580	586	580	580	579	580	582	7 00	590	15 19	567	23	23	2	1
578	576	578	584	588	585	580	579	579	578	19 08	588	11 12	566	22	22	3	2
570	569	570	572	578	579	578	578	580	574	7 00	580	12 32	564	16	34	4	3
566	569	575	578	578	576	578	578	581	575	6 10	581	14 11	561	20	4	5	4
561	564	569	575	576	578	578	579	580	573	0 27	586	14 47	555	31	5		5
562	553	562	566	572	570	569	575	578	570	0 24	579	16 05	552	27	6		6
568	558	561	565	561	574	581	583	590	572	23 33	590	19 16	551	39	7		7
579	579	579	581	582	578	590	590	588	582	21 32	592	6 47	566	26	8		8
581	584	579	587	590	588	590	591	596	586	23 52	601	12 33	579	22	9		9
591	590	590	590	593	590	584	588	590	589	0 00	601	8 49	578	23	10		10
579	578	579	582	583	579	578	577	581	582	4 18	596	8 46	575	21	11		11
579	579	579	579	578	575	575	577	577	581	3 15	592	20 44	574	18	12		12
575	574	577	578	578	575	575	574	575	575	4 01	588	11 17	565	23	13		13
563	566	568	573	575	575	575	575	574	569	6 53	581	13 06	551	30	14		14
565	572	575	578	578	575	570	568	568	571	6 35	581	12 40	559	22	15		15
568	568	568	568	565	564	577	577	579	570	23 32	581	12 34	561	20	16		16
561	565	569	575	575	574	575	570	575	571	6 36	579	13 34	552	27	17		17
565	565	566	566	569	574	573	569	565	569	7 33	578	11 49	555	23	18		18
563	560	563	564	575	575	578	578	(578)	571	8 00	579	14 58	556	23	19		19
566	569	568	576	578	577	577	578	578	573	7 00	580	14 13	549	31	20		20
576	577	578	578	585	581	590	578	582	577	21 05	597	12 52	563	34	21		21
589	589	585	581	582	591	590	589	590	585	2 39	593	0 41	576	17	22		22
586	582	578	580	585	581	589	589	589	583	6 00	593	15 17	576	17	23		23
590	(589)	588	586	588	588	589	585	590	588	12 00	595	3 19	578	17	24		24
589	580	582	589	590	591	581	589	591	589	3 30	594	21 31	580	14	25		25
591	594	598	595	593	591	590	591	600	593	3 00	602	7 34	589	13	26		26
594	591	593	597	602	597	597	593	595	598	2 16	604	14 01	591	13	27		27
593	600	603	604	606	603	602	603	604	598	19 06	606	8 17	590	16	28		28
613	611	612	611	608	613	608	606	607	608	15 04	616	7 42	602	14	29		29
613	612	607	613	616	616	613	615	615	609	5 00	618	0 30	595	23	30		30
606	609	614	614	614	613	613	612	609	610	6 00	616	10 00	603	13	31		31
579	579	580	583	585	584	584	584	586	582							22	
575	576	580	583	585	583	582	582	582	581							20	
574	577	579	582	585	582	581	580	581	578								

34000 γ PLUS TABULAR QUANTITIES.

593	(600)	608	610	612	613	613	607	610	605	5 32	620	13 08	580	40	1
613	615	611	611	613	610	613	613	613	611	8 56	616	3 15	602	14	2
603	604	606	606	610	613	612	613	615	609	8 29	617	14 03	593	24	3
606	603	603	603	611	613	613	615	616	609	23 33	616	12 30	603	13	4
612	612	611	612	612	608	606	608	608	607	0 00	613	13 30	594	19	5
603	605	605	611	610	606	606	611	615	605	23 46	615	10 57	599	16	6
624	622	611	604	604	593	601	613	617	609	15 58	636	20 33	591	45	7
613	616	613	613	612	610	612	612	613	613	0 51	623	8 05	590	33	8
622	618	618	616	616	615	615	615	615	613	15 40	622	8 07	599	23	9
627	621	615	612	611	609	610	612	612	615	16 00	627	20 30	609	18	10
620	614	617	615	611	609	608	610	609	613	15 44	621	8 04	608	13	11
619	614	615	620	621	617	612	611	610	615	19 00	623	9 20	609	14	12
615	616	618	618	618	618	618	616	615	614	20 30	618	8 54	610	8	13
614	614	614	615	619	619	620	616	612	615	21 01	622	9 01	608	14	14
615	613	620	617	621	626	626	625	624	618	20 49	630	1 55	611	19	15
622	(622)	622	623	621	624	624	625	630	622	6 30	631	10 40	612	19	16
623	621	620	623	623	622	622	626	623	623	0 00	634	8 50	614	20	17
612	612	618	613	619	619	618	612	619	613	0 00	622	7 59	606	16	18
625	625	623	623	621	617	622	632	630	623	22 14	636	1 15	616	20	19
630	630	629	628	628	626	627	626	626	625	14 45	638	3 40	616	22	20
625	629	629	627	632	623	620	633	632	626	23 00	634	4 46	614	20	21
630	620	622	622	632	623	629	637	634	628	21 54	638	18 53	617	21	22
627	632	630	628	628	628	627	627	627	628	10 12	638	7 05	620	18	23
630	634	632	632	628	626	626	630	631	629	16 30	634	8 02	619	15	24
632	632	631	629	626	623	624	625	627	628	13 30	633	7 17	610	23	25
641	645	639	640	639	637	637	636	636	633	14 42	649	6 42	618	31	26
633	637	635	635	635	633	632	633	632	631	3 30	637	11 26	619	18	27
637	633	635	640	639	638	637	636	631	634	18 40	641	8 24	625	16	28
637	633	633	632	634	634	633	630	635	631	6 00	642	10 46	612	30	29
634	635	635	635	634	632	630	629	629	629	5 00	640	12 00	618	22	30
621	621	621	620	621	619	620	621	622	619					21	
625	624	624	625	624	622	622	622	621	622					17	
624	620	620	621	620	617	615	616	616	618						

MAY, 1915.

34000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	622	623	625	628	633	635	635	635	627	626	624	625	622	628	633
2	638	630	633	638	642	639	638	643	637	636	636	634	634	636	632
3	636	633	633	630	631	627	632	634	628	621	623	625	633	641	641
4	636	637	630	634	633	632	632	637	637	636	640	640	633	635	632
5	637	637	638	637	636	636	635	633	634	634	637	633	631	631	629
6*	641	641	641	638	637	635	635	637	638	645	645	647	648	644	645
7*†	647	647	646	649	646	644	642	641	640	640	641	642	642	649	651
8*†	646	647	648	649	648	647	648	641	638	639	642	648	648	650	653
9	643	643	643	645	640	643	640	638	628	628	630	632	630	632	638
10*	637	637	639	646	647	643	641	640	641	636	635	641	644	647	649
11*†	636	636	638	639	640	641	643	643	642	642	642	642	642	639	641
12	640	642	638	645	647	653	651	648	639	635	633	635	640	645	647
13	642	639	642	646	645	645	646	641	636	632	627	633	639	643	648
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	641	638	638	639	643	643	644	636	637	638	636	638	635	636	629
17	630	635	637	636	633	635	638	632	629	627	642	647	653	656	655
18*	(643)	(641)	(639)	(637)	638	638	640	645	642	643	640	638	637	640	641
19	647	644	643	643	641	641	642	644	644	645	645	649	652	652	647
20	644	647	640	647	644	642	642	643	644	645	649	652	646	648	648
21	639	638	639	639	632	633	635	638	640	644	643	639	638	645	644
22	645	643	644	643	635	633	638	639	637	646	648	651	653	652	657
23*	647	646	648	648	647	641	637	637	636	638	641	647	648	650	653
24	643	643	648	648	644	645	644	646	645	648	655	661	662	662	662
25	643	643	645	645	646	646	643	633	631	637	648	659	660	670	667
26	644	643	647	648	647	647	647	648	647	640	650	659	657	658	661
27	632	635	646	656	655	661	652	647	638	637	636	632	625	635	649
28*†	640	642	643	647	647	649	650	656	648	643	645	641	638	647	652
29*†	642	642	643	644	645	647	652	651	650	647	647	645	639	643	645
30*	641	640	642	643	644	646	650	651	645	644	645	646	638	638	643
31	637	639	638	639	640	641	646	650	645	643	641	640	642	647	650
Mean.....	640	640	640	642	642	642	642	642	639	638	640	642	642	645	646
Mean*.....	642	642	643	644	644	643	644	644	642	642	642	644	642	645	647
Mean†.....	642	643	644	646	645	646	647	646	644	642	643	644	642	646	648

JUNE, 1915.

34000 γ PLUS TABULAR QUANTITIES.

1*	640	636	632	634	634	636	636	638	634	635	635	636	635	638	645
2*	631	636	632	630	632	633	636	639	639	645	646	650	656	657	658
3*†	643	642	638	638	638	636	635	634	631	637	639	639	639	633	636
4*†	635	633	634	634	633	632	634	634	634	636	637	647	647	641	644
5*	639	639	640	640	639	635	634	632	633	634	636	647	643	645	647
6	637	637	638	640	638	634	630	631	631	635	643	647	648	644	643
7	633	632	634	635	635	633	634	635	628	635	639	639	639	649	646
8	621	626	626	626	625	631	631	629	629	623	623	631	635	637	642
9	632	630	638	639	639	639	636	(637)	(635)	(638)	(641)	(646)	(647)	(647)	(649)
10*†	635	635	637	638	640	640	639	636	628	629	629	635	635	636	637
11	633	635	635	640	644	644	643	636	635	635	635	635	636	644	645
12	631	631	643	645	640	634	632	631	626	633	637	643	646	644	645
13	645	641	645	645	647	646	646	640	639	639	639	640	640	650	658
14	638	638	639	642	642	645	644	643	644	642	637	636	644	646	646
15*	646	645	646	647	648	649	649	647	648	651	652	656	655	655	654
16	645	646	642	638	638	640	639	639	640	640	641	641	644	642	643
17	641	647	645	627	619	627	587	631	630	643	655	657	662	690	702
18	679	680	678	676	675	675	671	670	667	665	665	666	664	663	671
19*	672	672	671	673	672	673	673	675	672	673	673	674	672	674	673
20*†	665	665	665	667	666	667	665	663	666	667	668	670	668	668	667
21	(663)	(663)	(662)	(664)	(663)	(663)	(665)	(665)	663	667	668	677	678	679	679
22	658	658	669	669	669	671	674	668	666	668	672	678	678	679	679
23	665	676	673	668	666	667	668	665	662	667	671	673	672	672	672
24	665	665	666	667	667	667	668	667	662	662	668	671	670	672	679
25	658	659	660	665	662	663	663	663	663	667	667	668	668	666	664
26	658	659	660	660	661	661	662	660	658	659	660	661	658	659	663
27	652	651	652	653	655	656	657	655	651	651	651	653	653	653	654
28	647	649	650	652	651	655	652	652	654	655	654	653	653	653	653
29	646	650	650	650	645	648	646	653	653	654	656	657	656	654	656
30*†	647	647	642	652	641	643	650	651	646	654	656	657	656	654	655
Mean.....	647	647	648	648	647	648	647	647	646	648	650	653	653	655	657
Mean*.....	645	645	644	645	644	644	645	645	643	646	647	651	651	650	652
Mean†.....	645	644	643	646	644	644	645	644	641	645	646	650	649	646	648

*Ten least disturbed days.

†Five international quiet days.

34000γ PLUS TABULAR QUANTITIES.

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34000γ PLUS TABULAR QUANTITIES.

645	642	639	639	641	638	640	640	638	15	05	645	2	30	632	13	1	
656	646	643	642	643	643	644	644	643	14	42	658	3	28	627	31	2	
637	634	633	632	632	632	632	632	638	0	00	643	8	32	630	13	3	
646	646	641	636	635	633	637	639	638	15	43	647	7	56	629	18	4	
652	647	641	639	637	634	634	636	638	15	30	654	7	50	630	24	5	
638	635	632	631	635	633	631	633	634	637	12	37	648	6	59	629	19	6
646	633	633	630	631	631	625	621	620	634	13	39	650	23	24	619	31	7
643	642	642	642	640	639	636	634	631	633	15	31	645	10	11	620	25	8
(651)	649	645	645	642	640	639	636	636	641	(15	30)	(651)	1	20	627	24	9
638	637	643	639	640	638	637	633	632	636	17	33	645	8	00	627	18	10
650	648	647	645	644	643	642	641	641	641	15	49	653	0	30	633	20	11
647	649	647	643	637	635	641	647	646	640	22	41	650	8	51	621	29	12
658	654	651	649	650	649	647	642	638	646	15	00	660	10	27	636	24	13
646	647	648	647	646	647	647	648	647	644	20	30	649	10	59	635	14	14
653	653	652	649	648	649	649	648	647	650	11	30	656	1	51	645	11	15
643	639	640	642	644	648	653	660	648	643	22	48	667	9	02	631	36	16
693	683	684	688	680	677	681	687	687	659	13	48	718	6	06	576	142	17
674	674	673	676	677	673	673	677	677	672	0	45	686	10	34	662	24	18
674	671	670	669	669	666	667	667	667	671	15	19	677	20	30	666	11	19
666	(665)	(664)	(662)	(662)	(663)	(664)	(662)	(663)	665	11	30	672	(19	30)	(662)	10	20
680	673	666	664	660	661	659	662	666	667	15	58	680	20	03	657	33	21
681	677	674	674	670	664	665	665	668	671	15	54	682	1	15	656	26	22
672	673	671	668	667	665	665	665	666	669	1	19	677	7	40	660	17	23
678	668	670	666	663	661	661	660	659	667	14	59	679	23	45	659	20	24
667	665	665	665	661	660	660	660	660	663	12	12	671	0	30	658	13	25
667	667	665	662	662	662	656	654	654	660	15	58	668	23	45	654	14	26
655	652	653	653	653	652	654	653	652	653	6	31	657	11	20	646	11	27
652	653	652	657	656	648	649	646	646	652	18	30	657	23	30	646	11	28
655	656	653	652	651	648	651	651	651	652	11	30	657	7	13	644	13	29
655	655	654	652	653	651	651	651	652	651	12	00	657	4	00	640	17	30
657	654	653	652	651	649	650	650	650	650							24	
652	650	648	646	646	645	645	645	646	647							17	
648	647	647	644	644	646	646	646	647	646								

JULY, 1915.

34000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	γ 647	γ 643	γ 642	γ 643	γ 644	γ 644	γ 648	γ 649	γ 648	γ 655	γ 653	γ 664	γ 672	γ 674	γ 689
2	634	634	641	651	642	644	641	641	638	640	642	644	654	663	662
3*	644	643	645	644	642	643	644	644	639	645	649	650	649	653	659
4*†	647	647	648	647	644	641	644	644	639	645	648	648	648	652	649
5	639	641	639	639	635	636	637	638	636	639	651	654	653	651	652
6	635	636	639	643	627	632	635	631	635	634	640	646	647	655	654
7*	640	641	647	647	644	644	643	639	629	629	631	640	643	646	646
8	641	642	643	648	649	651	649	642	639	640	644	648	648	649	653
9	648	648	652	649	651	651	650	642	631	631	640	640	648	651	651
10	639	642	643	643	(644)	(643)	(643)	(640)	629	630	636	643	640	(639)	(639)
11	623	628	634	635	634	638	640	639	631	635	633	642	644	644	643
12	638	634	645	644	648	647	648	648	639	640	643	642	643	642	648
13*	641	641	643	643	644	644	646	641	637	637	637	641	637	637	637
14	638	638	638	639	638	639	640	635	635	640	642	642	642	642	646
15*†	636	634	635	635	635	635	634	629	627	627	630	638	647	648	649
16*†	639	638	638	639	639	639	639	639	630	635	642	647	643	642	643
17†	639	639	639	638	638	638	638	636	634	638	642	649	652	652	652
18*	640	639	639	639	639	639	639	638	629	634	636	639	638	636	642
19*	640	639	640	640	636	636	638	638	638	640	651	653	652	651	649
20*	638	638	638	639	637	638	635	628	629	635	635	638	638	645	648
21	639	641	641	641	638	638	635	631	631	638	638	639	638	639	648
22	640	641	638	640	637	640	637	628	618	621	624	634	634	645	647
23*	637	644	646	646	646	646	637	629	613	610	614	623	626	627	636
24†	635	636	638	640	639	640	640	636	634	634	640	647	647	647	643
25	634	634	637	637	643	646	645	634	625	632	634	643	631	629	629
26	632	632	636	641	641	643	643	641	632	632	631	631†	629	640	646
27	639	638	639	642	642	642	639	632	630	629	633	641	638	638	638
28*	639	637	639	639	640	641	643	641	637	636	640	649	648	636	636
29	641	641	641	641	(640)	(639)	(638)	(637)	(636)	638	644	648	650	643	640
30	646	637	635	636	637	637	637	635	626	633	636	642	639	637	637
31	645	643	640	641	635	636	636	635	632	635	639	645	647	648	648
Mean.....	639	639	641	642	640	641	641	637	632	635	639	644	644	645	646
Mean*.....	640	640	642	642	641	641	641	638	632	634	638	643	643	643	645
Mean†.....	639	639	640	640	639	639	639	637	633	636	640	646	647	648	647

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34000 γ PLUS TABULAR QUANTITIES.

1	643	(642)	(641)	(640)	(638)	(636)	(633)	(630)	628	(631)	634	638	644	647	648
2	643	636	(636)	(636)	(636)	(635)	(633)	(631)	633	636	642	639	633	636	632
3*	642	644	645	645	642	641	640	640	632	632	632	629	626	623	629
4	642	641	642	646	629	632	...	...	635	635	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9*†	637	639	641	643	642	642	644	637	633	635	635	637	637	638	644
10	635	639	645	646	645	647	648	641	636	638	637	640	652	652	653
11	642	645	644	641	643	644	637	631	628	631	631	633	634	630	630
12*	643	639	640	644	642	644	645	645	644	646	645	645	638	635	638
13*†	641	640	641	642	642	647	648	643	639	641	649	646	643	643	643
14*†	637	637	635	636	637	640	643	643	638	639	636	635	634	633	632
15*†	638	638	638	638	637	638	641	640	639	639	639	639	636	634	640
16	642	641	641	641	639	640	643	642	640	645	646	645	644	642	642
17	642	639	639	640	641	646	643	651	642	637	640	648	652	650	651
18	648	648	647	648	642	641	642	636	629	629	631	636	639	640	638
19	637	639	645	642	632	637	641	636	636	643	645	647	651	650	649
20*	643	643	644	644	643	640	638	637	635	635	639	641	641	640	640
21	637	637	640	642	641	641	642	638	632	633	635	645	645	645	654
22*	642	643	649	651	651	652	651	645	636	634	634	638	643	645	649
23*	643	646	647	647	650	651	650	644	633	626	628	634	637	641	643
24†	636	639	641	641	646	646	645	635	630	629	629	630	633	639	644
25	636	636	636	637	637	642	641	635	630	635	634	632	628	633	635
26	642	648	647	648	651	653	654	643	643	645	644	643	647	648	648
27	647	640	636	641	646	643	646	641	641	643	641	635	634	637	641
28	637	639	633	640	639	643	639	633	628	628	626	628	628	627	628
29	638	639	640	642	639	642	642	643	644	640	642	641	644	644	644
30	644	643	643	643	643	649	641	636	633	635	635	634	634	635	636
31*	643	643	644	638	639	643	635	628	627	625	624	625	627	630	631
Mean.....	641	641	641	642	642	643	642	639	635	636	637	638	639	639	641
Mean*.....	641	641	642	643	642	644	644	640	636	635	636	637	636	636	639
Mean†.....	638	639	639	640	641	643	644	640	636	637	638	637	637	637	641

* Ten least disturbed days.

† Five international quiet days.

JULY, 1915.

34000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
\bar{r}	\bar{r}	\bar{r}	\bar{r}	\bar{r}	\bar{r}	\bar{r}	\bar{r}	\bar{r}	\bar{r}	h	m	r	h	m	r	\bar{r}	
660	652	649	648	648	637	637	633	636	650	13	02	676	22	40	622	54	1
658	657	650	646	645	645	647	647	648	646	13	48	664	0	17	631	33	2
660	649	647	646	648	648	648	648	649	647	15	37	662	7	16	636	26	3
647	643	641	640	639	634	636	637	641	644	13	19	653	20	30	634	19	4
651	650	646	641	642	638	638	639	642	643	11	30	654	7	42	634	20	5
654	651	648	642	644	640	638	638	641	641	13	45	656	4	30	619	37	6
650	647	645	643	640	637	637	640	641	641	15	14	651	8	49	626	25	7
656	653	652	651	648	644	640	642	648	647	15	39	657	8	34	639	18	8
653	653	651	(649)	(648)	(646)	(643)	(642)	640	646	15	12	656	8	13	628	28	9
(639)	639	639	639	637	633	633	633	633	638	11	33	645	8	54	619	26	10
643	643	643	643	642	642	641	641	644	639	17	00	645	0	42	622	23	11
651	650	648	648	647	645	645	645	644	645	15	00	651	1	00	632	19	12
639	642	645	645	646	641	640	639	641	641	19	18	646	9	18	636	10	13
649	649	649	648	648	644	642	642	640	642	14	58	649	7	33	627	22	14
649	649	649	649	649	646	647	643	643	640	15	00	649	7	54	626	23	15
648	640	640	640	640	640	642	642	642	640	15	30	648	9	02	627	21	16
648	639	638	639	640	643	643	643	643	642	14	00	653	8	00	630	23	17
643	642	639	636	638	639	639	640	642	638	14	45	646	8	24	627	19	18
647	639	639	642	640	639	639	640	642	642	14	07	655	7	33	635	20	19
648	647	645	641	642	641	638	639	641	639	15	35	648	7	18	625	23	20
648	648	641	638	638	637	637	638	641	639	15	19	650	8	00	625	25	21
649	650	646	646	646	637	637	638	640	638	16	30	650	8	45	614	36	22
639	643	639	636	636	633	635	635	636	634	4	00	648	9	22	609	39	23
647	647	647	646	646	638	634	634	635	640	13	14	648	8	30	634	14	24
632	633	633	633	640	637	639	632	633	635	5	12	646	8	50	620	26	25
640	639	642	643	643	643	637	630	634	638	14	41	647	12	08	627	20	26
640	640	641	642	645	645	644	644	644	639	20	00	646	7	54	621	25	27
652	(652)	651	649	651	652	649	648	648	644	15	45	653	9	00	635	18	28
641	637	636	641	647	640	640	646	649	641	12	00	650	17	12	636	14	29
640	644	645	645	645	646	648	649	649	640	21	13	649	7	56	623	26	30
648	645	644	645	647	647	645	645	647	642	14	00	648	8	12	632	16	31
647	646	644	643	644	641	641	640	642	641							24	
647	645	644	643	643	641	641	641	642	641							22	
648	644	643	643	643	642	643	642	642	642								

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34000 γ PLUS TABULAR QUANTITIES.

647	647	647	646	642	639	635	647	650	641	23	09	651	8	30	628	23	1
630	639	646	645	636	645	646	649	647	638	22	48	659	15	15	620	39	2
636	641	640	640	641	638	635	635	642	637	2	30	645	13	35	619	26	3
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8
652	651	644	642	642	639	640	637	640	640	15	38	646	23	52	629	17	9
645	638	639	641	645	642	642	638	635	640	16	09	659	8	18	631	28	10
659	650	648	643	645	641	641	640	640	644	2	42	650	9	51	625	25	11
627	640	642	647	650	647	645	645	644	644	20	15	649	13	12	631	18	12
647	647	646	647	648	648	648	646	641	643	6	43	649	8	57	638	11	13
643	643	641	642	643	642	641	642	641	638	21	30	644	14	24	629	15	14
636	635	635	637	641	640	644	643	641	639	22	20	643	13	12	633	10	15
639	636	639	641	641	641	642	642	642	639	9	34	651	16	24	635	16	16
641	642	644	646	648	646	646	645	645	643	16	14	660	3	12	635	25	17
653	652	640	644	644	640	640	639	646	644	2	52	648	9	18	628	20	18
639	639	633	633	636	635	637	639	638	642	16	15	656	4	34	630	26	19
651	650	645	643	641	639	639	639	642	640	13	03	644	8	00	629	15	20
640	641	642	639	637	635	633	636	637	639	15	45	662	8	36	629	33	21
660	648	649	649	650	649	646	641	642	645	14	30	652	10	30	634	18	22
648	649	650	644	647	643	642	641	636	642	5	51	652	9	24	624	28	23
644	646	646	648	648	644	642	639	638	640	18	39	649	9	15	629	20	24
644	644	645	634	633	623	637	639	647	636	22	30	649	20	34	612	37	25
639	640	640	649	648	643	643	643	646	643	6	36	655	7	32	634	21	26
646	645	647	649	652	647	649	651	647	647	0	17	650	12	01	632	18	27
644	644	644	645	645	645	(643)	(639)	637	642	22	42	644	10	27	622	22	28
634	(637)	641	643	643	643	642	642	643	636	14	41	648	9	05	631	17	29
642	637	635	637	645	645	647	647	646	642	5	22	653	9	33	624	29	30
635	636	636	638	640	643	643	646	644	639	24	00	648	11	00	620	28	31
631	635	636	640	642	643	646	647	648	636								
642	642	642	643	643	642	642	642	642	641							22	
641	641	641	642	643	642	641	641	640	640							19	
641	639	640	642	644	642	643	642	640	640								

SEPTEMBER, 1915.

34000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	647	646	646	646	646	646	646	641	637	637	635	637	641	645	645
2*	645	649	646	645	643	645	644	644	638	648	646	647	648	644	644
3	646	648	647	647	648	647	646	641	639	640	640	640	645	645	647
4	643	643	644	646	646	646	643	633	632	632	636	638	637	637	632
5	643	643	647	647	647	645	639	631	630	636	641	640	641	641	640
6*	645	646	647	650	650	650	647	636	630	629	634	636	638	639	640
7*†	645	648	648	651	650	648	643	639	638	638	638	637	642	643	643
8*†	644	645	646	651	650	651	651	645	643	643	643	644	646	649	649
9*	639	640	641	645	646	646	647	641	639	640	643	644	645	644	643
10	640	640	641	641	646	647	651	646	643	645	651	655	655	650	647
11	641	639	641	647	648	651	651	647	641	639	634	638	639	638	639
12*	643	643	642	644	643	644	645	639	638	638	641	641	641	641	639
13	644	644	644	644	644	644	647	642	637	637	642	643	642	638	634
14	643	643	641	640	642	643	642	639	637	637	638	644	643	641	638
15*	640	641	641	641	640	640	639	633	628	632	633	634	633	634	638
16	647	644	644	643	643	642	642	636	630	632	635	640	641	644	645
17	648	647	649	649	649	654	643	638	638	639	631	634	636	641	644
18†	646	647	647	647	646	645	643	637	636	635	639	639	639	645	645
19*†	646	648	648	649	649	649	648	638	631	630	633	636	641	642	642
20*†	645	646	649	651	651	651	649	645	641	644	644	645	646	648	649
21*	647	647	649	649	652	651	648	642	633	630	631	635	641	637	637
22	640	641	645	643	645	646	646	640	633	624	627	624	626	643	645
23	651	654	656	649	654	666	660	657	642	637	627	631	632	637	635
24	640	643	644	647	654	653	653	649	644	646	643	643	642	639	645
25	645	646	645	645	647	652	652	644	639	644	643	643	638	638	638
26	650	641	641	646	647	649	651	649	638	631	627	628	629	631	642
27	648	651	653	641	638	642	648	643	641	641	641	638	640	646	643
28	642	651	654	651	650	642	643	635	634	634	630	632	635	633	628
29	655	655	657	657	655	655	652	646	641	632	638	638	644	644	643
30	656	645	649	649	650	652	650	655	653	645	645	649	649	649	651
Mean.....	645	645	646	647	647	648	647	642	637	637	638	639	640	642	642
Mean*.....	644	645	646	648	647	648	646	640	636	637	639	640	642	642	642
Mean†.....	645	647	648	650	649	649	647	641	638	638	639	640	643	645	646

OCTOBER, 1915.

34000 γ PLUS TABULAR QUANTITIES.

1	657	653	653	651	649	648	651	647	644	643	645	650	644	639	642
2†	649	650	650	650	650	649	646	639	639	638	641	644	643	644	644
3	649	650	652	651	650	649	648	643	638	634	631	633	633	638	643
4	650	651	654	655	654	654	651	646	638	630	630	633	637	638	640
5*†	648	650	652	654	654	652	649	644	637	632	631	632	636	637	643
6*	645	648	649	651	651	651	647	646	640	636	635	637	639	640	645
7*	644	643	648	650	653	651	649	648	640	638	639	645	644	643	642
8*	642	643	647	648	649	649	648	646	642	640	642	642	640	637	642
9*†	642	642	645	647	648	650	649	647	641	637	639	640	635	632	636
10	648	646	647	648	651	652	652	651	647	644	640	641	645	639	638
11	650	651	651	651	647	651	654	651	644	635	633	634	629	630	631
12*	(649)	648	649	649	650	650	655	654	646	643	640	644	639	639	638
13*	648	645	645	648	648	648	649	648	639	635	633	633	634	637	637
14	645	644	645	647	648	648	649	647	637	636	632	631	632	633	637
15	636	643	643	652	654	660	657	653	643	642	647	647	652	652	659
16	671	672	669	667	662	661	661	658	656	652	651	653	654	649	644
17	647	647	657	661	657	656	651	646	640	635	638	642	645	642	643
18†	650	652	654	655	654	652	650	647	639	638	638	642	644	641	644
19	645	648	648	654	647	649	649	650	639	633	628	620	621	630	638
20	642	659	647	654	653	658	649	642	632	632	626	629	632	633	637
21	642	648	650	655	655	658	652	645	639	634	631	630	629	629	632
22	642	643	646	647	648	650	652	654	650	646	640	640	638	635	634
23	651	652	654	645	649	651	651	650	639	611	630	637	631	628	630
24	651	657	653	657	657	658	655	652	642	638	629	633	634	634	639
25	648	644	648	649	651	645	650	651	638	633	633	632	632	631	633
26	648	648	647	649	650	650	652	654	648	644	637	643	644	638	636
27*	649	647	647	647	647	646	647	643	641	637	635	631	630	629	626
28*	647	646	646	646	646	645	646	647	643	640	636	633	634	634	633
29*†	648	647	647	646	645	646	652	651	645	642	636	639	639	635	630
30	649	648	649	652	648	646	645	644	634	633	633	634	634	636	636
31	647	647	647	647	647	647	646	643	639	637	640	642	640	637	640
Mean.....	648	649	650	651	651	651	650	648	641	637	636	638	638	637	638
Mean*.....	646	646	648	649	649	649	649	647	641	638	637	638	637	636	637
Mean†.....	647	648	650	650	650	650	649	646	640	637	637	639	639	638	639

*Ten least disturbed days.

†Five international quiet days.

SEPTEMBER, 1915.

34000γ PLUS TABULAR QUANTITIES.

16h	17h	18h	19h	20h	21h	22h	23h	24h	Mean	Maximum			Minimum			Range	Day
<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	
641	640	640	640	644	644	644	645	646	643	0	00	648	8	42	635	13	1
642	637	640	641	644	642	642	642	644	644	1	52	654	8	00	636	18	2
645	639	640	640	640	639	640	642	644	643	1	37	651	7	46	639	12	3
632	635	642	643	642	642	642	642	643	640	5	14	646	7	55	632	14	4
642	645	646	646	645	644	644	646	646	642	3	30	648	7	56	629	19	5
644	644	643	647	644	642	642	643	644	642	5	00	650	9	35	628	22	6
643	643	647	648	648	646	644	642	645	644	5	41	651	12	09	635	16	7
648	645	647	648	647	645	641	640	640	646	6	19	652	22	51	640	12	8
640	638	643	645	642	644	641	638	639	642	6	14	648	16	15	636	12	9
648	648	649	650	650	649	649	648	644	647	12	21	655	0	00	640	15	10
640	638	639	644	645	645	645	645	647	643	6	12	652	10	22	634	18	11
639	635	640	646	648	648	647	648	649	643	23	01	649	7	46	634	15	12
634	634	635	641	644	646	646	646	646	642	22	03	647	9	18	632	15	13
637	633	636	639	641	641	641	643	646	640	22	56	647	16	27	633	14	14
639	638	639	640	642	640	639	642	647	638	24	00	648	8	18	628	20	15
641	640	640	639	638	635	639	646	647	641	22	46	651	10	11	629	22	16
647	649	647	646	646	642	642	643	647	644	8	54	657	8	17	624	33	17
644	643	645	648	645	643	643	644	647	643	18	16	648	8	14	634	14	18
646	643	646	647	646	643	644	642	645	643	5	32	650	9	12	629	21	19
651	651	654	653	648	647	645	644	644	648	18	00	656	8	45	639	17	20
641	642	642	645	645	643	642	641	641	642	5	00	654	9	02	626	28	21
644	648	644	648	650	647	650	654	657	642	22	10	662	12	00	609	53	22
651	647	645	647	656	654	653	656	646	648	5	57	673	11	00	621	52	23
646	648	643	651	655	655	653	652	651	647	19	23	657	11	00	636	21	24
635	639	640	643	645	651	653	651	650	644	21	20	655	8	28	634	21	25
642	(643)	(648)	(652)	(652)	(653)	654	653	651	644	6	52	656	9	40	625	31	26
641	641	643	647	649	650	647	643	642	644	1	54	660	12	00	631	29	27
634	633	636	641	639	642	646	653	654	640	22	56	670	10	36	627	43	28
644	643	646	650	652	653	649	644	646	647	3	00	658	9	30	630	28	29
650	648	646	655	657	656	656	656	657	651	0	51	670	1	24	639	31	30
642	642	643	646	646	646	645	646	646	644							23	
643	642	644	646	645	644	643	642	644	643							18	
646	645	648	649	647	643	643	643	646	645								

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34000γ PLUS TABULAR QUANTITIES.

639	643	646	650	650	650	649	650	651	648	0	32	657	13	03	638	19	1
649	647	647	646	646	644	645	649	649	646	2	05	650	8	18	638	12	2
648	649	649	645	644	644	645	650	650	644	2	24	652	10	29	631	21	3
643	643	644	646	648	643	643	645	646	644	3	39	655	9	57	626	29	4
644	646	646	648	647	646	643	644	644	644	4	30	655	10	33	631	24	5
645	643	646	644	645	641	640	644	644	644	5	23	652	10	45	634	18	6
645	644	646	644	644	643	644	643	643	645	4	48	654	9	43	637	17	7
645	644	646	648	648	647	647	644	643	645	4	53	652	13	21	637	15	8
636	640	647	650	650	647	647	643	647	643	6	16	652	13	21	632	20	9
640	635	635	647	656	657	657	656	654	647	20	30	658	17	07	629	29	10
634	636	641	644	654	655	655	651	(651)	644	20	30	655	13	06	628	27	11
639	641	644	645	650	650	649	650	650	646	6	50	655	14	09	638	17	12
638	638	640	640	643	644	649	649	649	642	6	46	649	10	30	632	17	13
637	637	638	643	649	647	648	643	636	641	5	59	652	10	48	621	31	14
660	656	647	661	657	653	660	659	674	653	23	10	675	0	00	624	51	15
646	646	647	646	647	654	652	651	651	655	1	09	675	18	48	631	44	16
645	646	650	649	647	646	648	647	650	647	4	02	661	9	30	634	27	17
648	648	645	645	644	641	643	644	645	646	3	47	655	9	00	637	18	18
638	650	654	652	649	648	649	648	648	643	3	20	656	11	37	615	41	19
647	653	650	642	641	642	638	642	645	643	1	17	664	10	49	621	43	20
639	638	647	649	648	646	642	642	643	643	5	59	661	14	00	625	36	21
634	641	647	651	651	641	648	657	651	645	22	33	658	15	03	629	29	22
644	650	650	646	630	629	628	639	650	641	1	52	658	9	26	601	57	23
643	639	644	645	651	646	639	641	648	645	1	22	661	10	28	627	34	24
639	643	648	647	649	654	643	652	651	644	20	21	660	14	08	623	37	25
638	644	644	644	650	649	653	648	649	646	3	56	654	10	11	631	23	26
630	635	637	637	641	644	647	649	648	640	22	52	649	15	12	625	24	27
635	636	639	640	646	647	648	651	652	642	21	42	652	11	33	631	21	28
635	(637)	639	640	641	643	645	646	650	643	6	47	652	14	24	629	23	29
632	633	636	636	632	636	637	639	649	640	3	31	653	19	30	626	27	30
641	633	640	640	640	633	639	641	645	642	0	12	648	9	23	629	19	31
641	642	644	645	646	646	646	647	648	645							27	
639	640	643	644	646	645	646	646	647	643							20	
642	644	645							645								

NOVEMBER, 1915.

34000γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>
1	641	647	650	646	640	650	646	645	633	636	637	642	648	649	649
2	653	654	654	654	653	653	654	653	652	652	650	644	647	652	656
3*†	649	651	651	655	653	651	651	645	643	643	641	644	644	643	650
4*†	646	650	648	648	654	654	653	649	645	645	645	646	647	647	651
5	645	649	651	654	653	653	652	651	639	637	636	638	636	638	633
6	641	642	647	658	659	658	654	674	647	640	632	635	631	635	644
7	649	651	651	656	657	658	658	655	648	643	637	632	636	642	644
8	647	646	647	652	652	653	653	651	641	636	639	640	635	636	641
9	644	645	645	645	645	650	651	653	650	650	645	650	648	644	640
10	643	648	648	648	643	642	643	643	636	631	632	636	634	631	631
11	648	646	647	650	650	642	642	647	644	649	647	643	643	642	638
12	645	642	644	648	648	647	648	648	642	639	635	630	628	631	635
13*	648	647	647	643	643	643	643	643	641	641	641	641	641	639	642
14*†	648	649	648	648	648	647	647	648	646	644	641	636	634	635	635
15	648	653	653	653	648	647	647	647	641	636	636	640	638	638	641
16	660	654	648	654	656	658	659	654	642	637	643	658	654	649	646
17	647	653	655	658	653	658	659	659	658	647	648	648	651	652	652
18	664	658	663	671	664	656	658	659	646	653	653	654	654	658	658
19	661	664	670	665	666	660	659	664	657	653	659	659	648	648	653
20	661	664	659	665	666	668	666	664	654	653	652	649	654	659	659
21	660	659	665	666	669	671	670	670	662	665	658	655	649	649	658
22	663	663	668	668	667	668	673	667	667	656	656	655	655	656	657
23*	668	668	668	668	669	673	674	669	669	665	663	657	653	653	662
24*	665	665	666	668	668	669	669	670	669	664	652	652	652	652	652
25*	665	665	665	665	665	665	666	666	658	652	652	647	642	647	647
26*	665	665	662	660	662	665	666	666	654	655	657	659	659	654	656
27	663	669	666	666	662	662	667	672	672	666	662	661	655	654	654
28	668	668	665	665	668	669	664	661	661	661	661	658	658	660	660
29*†	667	666	666	665	664	664	663	664	658	655	653	657	661	661	661
30*†	667	669	670	670	666	665	670	665	664	664	661	665	666	665	660
Mean.....	655	656	656	658	657	657	658	657	651	649	647	648	647	647	649
Mean*.....	659	660	659	659	659	660	660	658	655	653	651	650	650	650	652
Mean†.....	655	657	657	657	657	656	657	654	651	650	648	650	650	650	651

DECEMBER, 1915.

34000γ PLUS TABULAR QUANTITIES.

1*†	666	666	667	667	666	666	666	666	661	659	655	654	653	654	655
2*	666	666	667	668	666	666	665	665	657	654	658	659	653	651	658
3	664	668	668	671	667	667	665	662	656	654	649	646	647	648	650
4*	666	666	667	669	669	668	667	666	660	655	655	655	660	661	663
5†	661	665	667	668	668	667	667	667	661	659	654	650	651	653	656
6	662	668	673	674	675	670	673	673	667	662	662	668	656	656	660
7	675	674	678	686	681	681	681	681	677	674	669	664	657	655	657
8	674	674	675	679	681	681	681	680	675	675	674	674	674	668	665
9	676	675	675	676	677	678	680	682	681	675	669	664	665	669	669
10	674	674	674	674	671	674	676	676	674	674	663	663	663	664	668
11	676	676	676	676	674	674	676	676	673	671	665	665	665	664	665
12	680	679	682	678	680	680	678	680	672	667	665	670	671	671	670
13*	679	678	678	678	677	677	678	679	677	671	665	661	659	659	659
14	677	678	679	679	679	678	676	678	672	665	661	659	659	659	667
15	679	679	683	685	690	689	680	678	672	667	671	668	658	659	666
16	692	685	685	686	686	685	685	685	685	666	666	666	667	673	678
17	684	685	686	686	686	686	685	685	677	669	667	666	660	667	667
18*†	680	681	682	685	685	685	685	684	679	673	668	661	659	661	667
19*	679	681	681	686	687	686	686	687	681	676	671	662	655	655	662
20*	677	680	681	683	686	687	687	687	681	675	670	669	668	670	678
21*†	682	682	682	684	683	683	683	683	679	671	668	669	670	675	680
22†	682	683	683	684	683	684	687	688	683	676	673	670	669	669	669
23	682	682	682	682	682	683	686	688	682	672	670	669	673	676	675
24	683	682	678	683	683	684	686	689	685	682	677	676	670	665	669
25	685	684	682	689	682	684	684	687	684	675	669	664	663	666	672
26	685	685	686	685	686	691	690	691	684	680	679	685	684	677	678
27	687	685	688	691	687	687	687	687	685	679	672	671	666	673	678
28	686	686	687	686	686	686	685	685	679	673	669	673	679	684	686
29	692	692	692	692	686	686	685	685	685	671	666	671	678	678	678
30*	688	688	688	692	688	686	685	686	680	680	667	672	673	678	685
31*	687	692	690	691	687	687	686	681	668	666	674	683	680	680	681
Mean.....	678	679	679	681	680	680	680	680	675	670	666	666	665	666	669
Mean*.....	677	678	678	680	679	679	679	678	672	668	665	664	663	664	669
Mean†.....	674	675	676	678	677	677	678	678	673	668	664	661	660	662	665

* Ten least disturbed days.

† Five international quiet days.

NOVEMBER, 1915.

34000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
643	639	646	649	653	653	650	653	654	646	23	41	654	8	32	626	28	1
652	643	647	647	646	645	645	646	649	650	14	15	657	11	39	641	16	2
650	649	649	648	645	645	644	644	647	647	4	29	655	10	43	638	17	3
651	650	652	651	651	646	646	648	648	649	4	10	654	8	27	645	9	4
635	643	643	649	637	632	636	660	654	644	24	00	671	21	15	617	54	5
657	657	657	661	662	657	654	655	653	650	4	01	689	12	38	624	65	6
644	650	654	655	655	654	653	652	653	649	6	07	662	12	20	631	31	7
644	646	647	651	651	651	649	647	647	646	6	06	654	13	04	628	26	8
637	637	640	644	648	650	650	649	649	646	7	10	654	16	00	632	22	9
631	635	639	644	646	649	650	650	649	641	2	03	651	13	59	626	25	10
636	637	638	641	647	648	649	649	649	645	8	31	654	15	10	632	22	11
635	637	637	637	638	635	643	647	648	640	6	05	652	12	07	624	28	12
643	642	643	643	643	643	644	648	649	643	0	09	649	13	26	637	12	13
636	640	641	641	641	642	642	646	646	643	1	29	650	13	41	631	19	14
638	642	642	630	634	634	645	644	645	642	3	39	653	18	58	622	31	15
646	655	654	654	658	659	653	654	647	652	0	40	670	9	16	634	36	16
659	(656)	(653)	(649)	645	635	646	659	653	653	23	46	665	20	27	624	41	17
659	656	658	658	659	659	662	664	660	658	3	48	675	8	10	639	36	18
654	659	665	664	660	656	663	660	662	660	2	46	677	12	44	646	31	19
659	664	664	655	659	664	660	666	660	660	5	49	670	11	37	641	29	20
659	660	671	671	667	666	667	665	664	663	21	05	672	12	09	647	25	21
656	663	667	667	668	668	668	668	667	664	6	39	679	11	51	650	29	22
659	663	668	668	668	666	665	666	665	665	7	24	674	14	15	652	22	23
652	657	660	662	665	665	664	664	664	662	7	22	674	14	44	651	23	24
652	654	659	659	662	662	662	664	662	658	7	08	671	12	30	641	30	25
660	660	663	666	666	666	665	666	666	662	0	11	666	14	00	653	13	26
655	653	655	655	655	657	661	661	666	661	8	37	673	13	42	652	21	27
660	661	661	661	668	662	663	665	667	663	2	18	677	10	14	656	21	28
662	661	661	661	663	663	663	664	668	662	24	00	668	10	05	652	16	29
661	663	663	660	661	660	664	664	665	664	0	57	670	10	30	658	12	30
650	651	653	653	654	653	654	656	656	653							26	
653	654	656	656	656	656	656	657	658	656							17	
652	653	653	652	652	652	652	653	656	653								

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34000 γ PLUS TABULAR QUANTITIES.

660	660	662	661	661	660	660	660	665	661	2	30	667	12	21	649	18	1
661	660	659	660	659	659	659	660	661	661	3	21	669	13	11	648	21	2
659	661	661	661	660	661	661	661	661	660	3	18	671	11	31	642	29	3
666	666	667	667	667	665	662	661	661	664	4	43	670	11	39	642	16	4
661	667	667	667	667	661	657	659	660	662	4	29	670	11	05	649	21	5
667	668	662	668	685	687	682	676	681	670	19	42	693	14	11	651	42	6
663	669	671	675	675	675	675	680	674	673	3	40	686	13	30	655	31	7
671	670	675	679	679	681	680	680	679	676	5	36	682	15	11	663	19	8
670	669	669	675	680	677	676	675	675	674	8	23	682	11	30	663	19	9
670	668	670	670	674	674	673	675	676	671	7	24	676	11	09	662	14	10
665	665	665	668	672	673	676	678	681	671	23	44	682	14	12	660	22	11
670	671	671	672	676	676	677	677	678	675	2	32	683	10	30	664	19	12
665	667	669	671	671	672	674	676	677	672	0	44	681	14	15	658	23	13
676	677	677	672	674	673	678	678	679	673	3	52	682	11	17	654	28	14
673	679	683	686	683	679	683	683	683	677	4	50	696	12	56	653	43	15
678	(678)	678	678	676	675	676	679	680	679	0	31	698	10	56	660	38	16
662	679	675	679	680	680	679	679	680	677	5	27	686	12	40	659	27	17
671	674	678	678	680	679	676	678	677	676	5	30	686	12	07	656	30	18
670	675	675	677	680	681	680	680	679	676	7	54	687	13	09	655	32	19
679	675	679	679	680	678	678	678	680	679	5	14	687	12	25	668	19	20
681	682	682	682	682	682	682	682	682	680	7	27	684	11	18	664	20	21
670	676	676	678	681	678	683	683	683	679	7	49	688	12	27	665	23	22
675	670	680	682	683	683	683	683	683	679	7	42	688	11	38	664	24	23
669	672	683	684	685	683	685	683	688	680	8	03	689	13	48	663	26	24
676	677	682	683	684	688	683	688	684	680	3	30	691	13	00	658	33	25
679	680	684	685	687	686	684	690	690	685	7	53	691	13	47	672	19	26
679	682	683	685	686	688	688	687	690	683	4	37	691	11	30	665	26	27
687	686	686	686	687	685	686	687	691	684	24	00	691	10	24	666	25	28
679	679	679	685	680	683	681	685	687	682	1	29	693	10	32	664	29	29
686	682	684	686	686	685	685	684	686	683	3	22	692	10	30	666	26	30
680	685	685	685	686	685	681	683	686	683	1	34	693	8	56	661	32	31
672	673	675	676	678	677	677	678	679	675							26	
672	673	674	675	675	675	674	674	675	673							24	
669	672	673	673	673	673	673	673	674	672								

JANUARY, 1916.

34000_r PLUS TABULAR QUANTITIES.

Day	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	13h	14h	15h
1*	686	687	689	690	687	685	685	679	672	660	660	666	672	673	674
2*†	680	684	685	686	685	685	683	683	674	666	665	673	677	681	679
3	680	684	685	686	685	685	684	684	678	670	663	658	658	664	670
4	679	683	683	687	683	684	683	683	676	669	659	667	670	671	677
5	677	679	683	685	686	689	689	688	681	671	663	661	662	663	667
6	676	675	675	677	680	681	681	681	675	669	662	654	650	657	663
7*	674	674	674	675	676	680	681	682	676	673	668	667	665	667	668
8*†	674	674	673	673	673	673	673	675	673	672	668	666	666	666	666
9	679	674	674	673	672	673	673	673	665	664	658	653	650	653	658
10	674	673	672	672	672	671	672	671	670	665	664	663	663	645	650
11	689	684	682	689	684	679	676	671	664	663	663	657	660	671	656
12	691	689	684	683	685	683	683	680	675	670	670	676	669	669	668
13	683	677	682	683	683	682	682	681	677	669	662	671	675	676	675
14	682	682	684	688	684	683	682	682	682	668	662	660	655	662	669
15*†	682	682	683	687	682	682	681	682	680	674	668	669	674	675	676
16*	680	680	682	684	681	682	680	680	673	660	659	664	666	667	671
17*†	681	681	685	685	685	685	684	684	679	672	666	666	667	671	673
18*	679	679	680	684	685	683	684	684	678	669	664	660	659	660	664
19†	677	677	679	681	680	681	681	684	679	669	666	665	665	671	673
20	674	670	671	676	676	678	682	682	672	658	651	657	663	674	670
21	677	676	677	679	682	683	682	683	676	668	662	662	663	669	670
22	672	670	675	676	676	681	682	682	676	669	662	667	668	663	662
23	674	669	676	682	683	683	683	682	675	668	665	661	662	667	668
24	675	675	675	674	675	674	673	674	673	667	666	665	660	661	666
25	674	678	679	673	680	672	675	681	675	672	668	666	669	667	668
26	680	679	679	679	679	678	677	679	675	673	671	667	664	666	658
27*	672	672	672	672	672	671	671	671	666	663	659	664	663	664	662
28	677	676	676	676	671	671	671	671	670	663	663	663	669	669	666
29	675	676	677	678	678	676	675	677	670	669	664	669	670	670	669
30	677	678	678	678	677	676	675	676	675	670	668	669	668	669	670
31*	676	676	678	677	678	676	676	676	671	669	664	662	662	661	661
Mean.....	678	678	679	680	680	680	679	679	674	668	664	664	665	667	667
Mean*.....	678	679	680	681	680	680	680	680	674	668	664	666	667	668	669
Mean†.....	679	680	681	682	681	681	680	682	677	671	667	668	670	673	673

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34000_r PLUS TABULAR QUANTITIES.

1*†	671	673	674	676	676	676	676	676	673	667	667	667	666	667	668
2*	674	674	674	680	680	680	680	677	673	668	667	666	660	660	660
3*	672	672	673	674	675	680	680	680	674	672	666	666	666	667	668
4	673	673	676	677	679	680	680	680	676	669	662	664	646	652	652
5	674	674	677	677	681	682	681	682	682	677	670	668	658	658	655
6*†	679	678	678	679	680	682	684	687	685	680	677	669	661	660	664
7	683	680	679	679	679	680	682	684	682	679	676	671	668	671	670
8	682	679	676	675	675	675	675	676	675	674	671	667	665	657	655
9	680	680	679	682	679	679	683	684	680	676	672	672	670	667	669
10	680	683	684	679	676	676	678	683	680	676	671	667	662	667	670
11*	679	679	679	679	679	678	678	678	675	671	667	662	662	666	667
12	679	679	680	681	679	679	679	680	676	671	666	664	665	661	662
13	679	683	684	684	679	679	679	679	679	675	674	671	671	671	673
14	683	684	683	685	684	680	680	686	679	676	671	670	667	667	670
15	676	679	676	682	680	682	682	681	676	670	663	663	666	662	659
16*†	674	675	676	679	679	679	679	680	676	673	668	665	662	660	662
17	671	671	675	679	677	676	675	679	675	671	667	659	659	660	666
18	676	679	680	679	684	682	678	684	679	668	664	664	660	662	668
19	675	675	676	678	683	684	684	687	679	675	668	665	662	658	663
20	671	671	672	675	678	679	683	684	679	674	666	662	655	656	658
21*†	675	675	675	675	675	679	680	683	679	675	670	670	671	671	668
22	674	673	667	672	675	675	679	683	680	675	674	675	675	674	668
23	678	676	675	675	675	675	679	680	679	675	670	665	665	662	662
24	682	676	676	677	676	676	679	680	679	676	670	670	666	666	666
25*†	678	675	675	675	675	675	676	679	675	675	667	667	670	671	670
26	681	681	681	680	678	678	679	683	679	675	671	669	669	669	674
27	681	681	682	681	682	678	678	679	679	672	670	669	666	667	667
28*	679	679	682	682	678	677	676	676	672	669	668	668	664	660	665
29*	679	680	681	683	680	680	679	680	673	667	667	668	670	672	672
Mean.....	677	677	677	679	678	679	679	681	678	673	669	667	664	664	665
Mean*.....	676	676	677	678	678	679	679	680	676	672	668	666	665	665	666
Mean†.....	675	675	676	677	677	678	679	681	678	674	670	668	666	666	666

* Ten least disturbed days.

† Five international quiet days.

JANUARY, 1916.

34000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
r	r	r	r	r	r	r	r	r	r	h	m	r	h	m	r	r	
678	679	679	679	679	679	678	679	679	678	3	36	690	10	01	658	32	1
679	676	679	683	682	679	678	678	679	679	3	39	686	10	22	664	22	2
673	678	678	678	677	677	678	678	679	676	4	42	686	12	19	656	30	3
681	677	681	683	683	677	677	677	677	678	5	24	689	10	47	655	34	4
670	676	683	686	687	687	684	683	681	678	6	15	689	11	30	656	33	5
667	670	675	677	678	677	679	679	676	672	7	20	681	12	01	649	32	6
668	668	673	675	681	681	681	681	681	675	7	21	682	12	51	663	19	7
665	666	667	673	677	679	680	680	680	672	23	00	680	14	09	660	20	8
658	660	666	672	677	675	675	677	675	668	0	00	679	12	23	645	34	9
656	665	657	658	664	672	677	679	684	667	23	08	686	13	09	642	44	10
661	665	654	663	678	685	697	686	695	674	21	21	706	14	12	644	62	11
670	672	676	675	678	676	683	683	690	678	0	00	697	12	39	663	34	12
676	676	675	681	682	682	682	682	683	678	0	00	691	10	15	660	31	13
674	675	680	682	682	681	680	678	681	677	3	24	688	12	15	654	34	14
676	680	681	681	682	681	681	681	682	679	3	30	687	11	07	667	20	15
573	673	680	680	681	680	680	680	681	676	2	35	687	10	08	654	33	16
678	680	682	685	685	681	678	677	680	679	4	21	686	11	18	658	31	17
671	674	678	679	679	678	678	678	678	675	4	00	685	11	51	658	27	18
675	679	679	684	684	680	679	679	679	677	7	32	684	11	52	663	21	19
669	671	676	676	677	678	678	678	677	672	7	27	683	10	17	647	36	20
669	670	677	677	679	679	677	677	676	675	7	40	683	10	52	661	22	21
662	660	665	674	675	672	662	674	682	671	23	48	689	10	57	658	31	22
671	671	674	676	682	682	681	681	681	675	19	43	685	11	53	658	27	23
668	669	667	672	673	673	675	675	675	671	4	21	676	12	48	660	16	24
673	673	673	674	678	680	681	681	681	675	4	30	682	11	21	665	17	25
664	666	666	666	671	671	671	673	673	672	1	37	680	14	54	652	28	26
665	672	671	672	672	672	672	672	678	669	24	00	680	10	36	658	22	27
671	671	669	670	671	671	670	671	676	670	1	19	677	10	36	663	14	28
671	671	672	670	673	676	676	677	678	673	24	00	678	10	36	664	14	29
671	673	670	675	676	674	672	674	677	674	1	49	682	11	49	667	15	30
667	668	669	674	675	675	671	671	674	671	4	13	682	14	36	657	25	31
670	672	673	676	678	678	678	678	680	674							27	
672	674	676	678	679	678	678	678	679	675							24	
675	676	678	681	682	680	679	679	680	677								

FEBRUARY, 1916.

34000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
r	r	r	r	r	r	r	r	r	r	h	m	r	h	m	r	r	
674	671	674	675	675	673	673	670	673	672	5	32	680	13	15	662	18	1
666	674	675	675	675	674	674	674	674	672	3	39	680	13	28	660	20	2
673	(674)	(675)	676	677	677	676	676	673	673	6	30	680	11	12	658	22	3
656	669	673	677	681	681	681	681	678	671	21	21	682	12	15	646	36	4
655	656	669	674	678	681	681	681	680	673	8	17	685	15	13	652	30	5
669	670	673	678	682	682	682	683	683	677	7	44	688	13	24	658	30	6
670	668	671	674	678	676	676	675	680	676	7	09	684	11	51	667	17	7
659	662	668	675	683	684	684	683	682	673	20	00	684	14	00	653	31	8
671	675	675	675	675	675	679	679	680	676	7	32	684	12	53	663	21	9
671	671	671	671	671	671	673	676	679	674	2	16	685	12	37	662	23	10
670	666	670	671	675	675	674	675	676	673	1	24	680	12	27	660	20	11
663	670	675	674	674	674	674	674	675	673	1	55	682	13	43	658	24	12
674	672	671	671	671	680	676	672	675	676	3	28	687	11	33	668	19	13
672	(674)	675	675	675	674	674	675	675	676	0	50	688	12	41	667	21	14
663	670	674	674	674	671	671	671	675	672	3	28	683	14	42	658	25	15
667	667	670	674	675	672	671	671	671	672	7	17	680	13	21	658	22	16
671	674	675	671	671	663	666	675	677	671	3	39	680	12	17	657	23	17
671	(671)	671	676	679	678	675	673	675	674	4	48	687	12	52	657	30	18
667	671	671	679	679	679	678	675	674	674	7	30	687	13	24	657	30	19
660	665	671	674	675	679	676	676	675	671	7	23	684	12	42	653	31	20
668	668	672	676	679	679	676	676	676	675	7	31	683	10	51	666	17	21
667	666	671	675	678	676	679	679	679	675	8	03	684	1	49	662	22	22
666	(664)	661	664	670	670	679	684	684	672	22	50	685	13	36	659	26	23
667	667	667	671	674	674	675	675	676	673	0	00	682	14	06	664	18	24
673	674	673	673	677	677	677	678	681	674	24	00	682	11	00	667	15	25
677	670	670	671	671	675	676	680	680	676	7	57	683	12	36	667	15	26
661	664	670	673	673	670	674	677	678	674	1	40	683	15	54	655	28	27
673	674	676	677	675	675	675	676	679	674	3	55	684	13	27	660	24	28
673	670	672	674	673	671	671	671	674	674	2	44	684	10	07	664	20	29
668	669	672	674	676	675	676	676	677	674							23	
671	671	673	675	676	676	675	675	676	674							21	
670	670	672	675	678	676	675	675	676	674								

MARCH, 1916.

34000γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1*†	675	679	680	681	680	679	679	676	668	668	663	660	664	664	666
2	(672)	(675)	(676)	(677)	(678)	(678)	(678)	(677)	670	666	663	660	662	667	673
3	673	678	682	687	679	679	(680)	(679)	675	671	666	668	663	669	665
4*	683	682	682	685	686	686	686	686	681	676	671	670	669	669	670
5*	680	679	680	681	681	682	685	685	676	672	668	661	660	659	660
6	680	678	678	679	679	683	684	684	672	670	665	663	665	657	652
7	681	680	680	681	682	683	686	684	686	683	683	684	684	679	680
8	679	677	674	673	685	680	679	670	655	640	640	667	677	685	678
9	666	667	680	697	701	705	700	683	685	666	670	670	674	666	671
10	697	697	692	689	686	685	685	685	675	670	667	662	655	645	662
11	685	685	682	682	682	679	673	674	665	656	651	651	652	656	662
12	673	677	679	684	677	676	675	671	667	666	663	662	663	668	669
13*†	677	679	680	678	678	677	675	672	665	660	657	660	666	670	669
14*	678	681	683	683	684	683	681	679	671	672	672	671	670	669	(668)
15*†	678	680	682	683	685	682	684	684	674	670	665	666	667	667	671
16	677	678	678	(677)	(676)	(675)	(674)	(673)	674	673	670	670	670	675	676
17	(664)	(667)	(670)	(671)	(673)	(674)	(676)	(677)	672	672	673	675	675	680	684
18	677	679	686	686	686	686	685	681	673	668	667	664	664	664	672
19	675	675	679	683	679	680	681	678	671	676	662	656	657	666	675
20	674	676	677	677	677	678	681	678	668	660	659	653	658	661	664
21	670	677	675	675	684	679	680	679	674	665	665	668	668	666	667
22*	669	671	672	673	673	675	677	676	671	663	662	658	663	665	668
23*†	671	670	670	670	673	674	676	676	670	665	661	661	663	665	665
24	672	671	671	671	671	671	676	680	681	675	672	672	664	663	668
25	683	680	678	677	674	676	677	677	673	670	671	669	669	670	669
26	684	684	684	683	679	679	680	683	683	681	679	678	682	681	680
27*†	680	680	680	680	676	676	676	676	676	675	675	672	670	667	667
28*	678	681	682	681	680	677	676	673	671	668	668	667	668	668	672
29	673	673	672	675	682	681	678	673	661	658	656	664	677	677	678
30	693	693	698	688	679	682	688	682	669	678	677	670	669	674	681
31	679	679	679	677	674	681	683	676	675	665	661	662	660	661	666
Mean.....	677	678	679	680	680	680	680	678	672	668	666	666	667	668	670
Mean*.....	677	678	679	680	680	679	680	678	672	669	666	665	666	666	668
Mean†.....	676	678	678	678	678	678	678	677	671	668	664	664	666	667	668

APRIL, 1916.

34000γ PLUS TABULAR QUANTITIES.

1	672	671	677	685	684	682	685	680	672	668	664	667	667	672	676
2*	676	675	677	678	681	682	683	683	674	670	663	666	671	676	681
3*	674	676	676	679	680	681	681	677	666	659	657	659	660	663	662
4*†	676	673	674	676	678	681	682	682	684	685	682	683	684	685	684
5†	678	676	676	677	679	679	679	674	671	671	667	666	662	664	662
6	670	670	664	671	674	675	676	676	677	677	673	669	669	672	671
7	677	676	672	674	677	677	680	681	677	673	665	663	662	666	668
8	677	678	677	675	674	674	676	670	659	663	666	666	671	670	667
9	678	677	678	676	676	675	678	675	671	667	669	669	668	672	673
10*†	676	675	675	675	674	676	672	668	667	664	665	665	666	670	670
11*	674	674	675	675	673	673	673	669	661	661	660	662	668	673	678
12*	676	677	676	675	674	674	673	670	665	671	674	675	674	674	671
13†	673	673	674	674	673	674	674	673	670	669	669	673	675	676	679
14	676	673	677	676	676	676	676	675	673	672	668	668	673	675	675
15	674	677	676	681	680	676	674	678	675	673	669	666	667	665	665
16	678	681	677	680	681	681	681	678	676	672	670	669	668	669	665
17*	675	675	(674)	(672)	(671)	(672)	(672)	(669)	664	662	659	659	661	664	670
18	674	674	670	682	671	672	679	679	671	667	664	664	668	675	677
19	675	675	676	679	679	680	681	680	680	678	675	673	673	675	674
20	676	675	675	675	675	675	677	676	674	677	680	674	678	680	680
21*	679	675	675	676	676	678	677	676	675	672	671	671	672	669	671
22	670	678	682	683	679	677	680	679	679	678	678	678	680	680	680
23*	679	678	674	670	667	674	679	679	675	675	671	675	673	675	671
24*†	675	678	675	674	673	673	671	668	671	672	674	670	666	666	666
25	673	671	672	669	668	673	668	663	665	665	662	653	653	661	674
26	697	689	688	685	685	684	679	672	672	673	673	674	675	677	677
27	678	679	675	681	675	672	667	667	673	670	684	686	684	683	684
28	672	664	667	679	684	679	674	665	663	664	662	671	679	683	680
29	679	666	675	681	682	679	680	669	669	669	669	669	670	673	682
30	675	677	678	679	680	679	679	672	664	658	658	661	664	668	671
Mean.....	676	675	675	677	677	677	677	674	671	670	669	669	670	672	673
Mean*.....	676	676	675	675	675	676	676	674	670	669	668	668	670	672	672
Mean†.....	676	675	675	675	675	677	676	673	673	672	671	671	671	672	672

* Ten least disturbed days.

† Five international quiet days.

MARCH, 1916.

34000γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>h</i>	<i>m</i>	<i>r</i>	<i>r</i>	
669	672	674	675	674	673	671	670	670	672	3	21	684	11	40	660	24	1
677	677	680	673	669	665	665	673	673	672	16	22	681	12	06	660	21	2
675	677	672	667	676	677	682	677	684	675	3	03	695	12	39	662	33	3
671	(673)	676	680	680	682	677	678	679	678	7	24	686	13	00	665	21	4
665	666	670	676	681	680	682	682	682	675	7	07	686	13	50	657	29	5
658	660	664	673	674	674	671	675	680	672	5	23	684	14	10	650	34	6
676	674	675	674	676	680	683	678	681	681	6	37	686	22	25	674	12	7
672	664	678	682	683	682	676	668	666	672	4	10	692	10	45	631	61	8
674	679	673	679	673	666	687	701	701	681	5	02	710	20	46	657	53	9
667	669	670	670	675	681	681	681	684	676	1	50	702	15	57	640	62	10
662	666	667	670	670	671	671	675	675	669	0	52	686	10	55	650	36	11
669	669	666	672	671	670	672	672	675	671	3	09	684	10	42	659	25	12
670	676	676	676	675	677	677	677	677	673	2	41	680	10	28	656	24	13
(668)	668	670	676	677	676	676	676	677	675	4	20	686	16	57	667	19	14
675	672	674	674	676	677	676	676	676	676	4	00	687	10	34	662	25	15
671	669	674	679	676	664	658	657	662	672	19	00	681	21	42	656	25	16
682	674	679	685	686	688	684	684	682	677	20	20	689	..	..	..	..	17
673	675	679	683	684	682	682	678	674	677	13	55	691	12	00	664	27	18
680	677	676	678	682	676	676	677	673	674	3	27	685	11	34	654	31	19
670	668	674	675	678	674	669	664	664	670	7	02	686	11	31	650	36	20
671	668	671	673	675	675	676	675	672	673	4	25	689	9	55	660	29	21
668	667	668	673	674	673	674	674	674	670	6	54	677	11	20	658	19	22
670	670	666	666	671	674	675	675	672	670	7	01	678	10	23	660	18	23
672	673	673	681	681	679	678	681	682	674	8	48	692	13	05	660	32	24
663	656	658	664	678	684	687	683	680	674	20	33	688	16	12	652	36	25
678	674	674	674	674	674	675	676	679	679	2	53	690	19	48	674	16	26
669	670	672	672	671	671	672	675	676	674	1	05	681	13	50	667	14	27
676	676	672	672	669	667	668	668	671	672	2	12	682	9	17	666	16	28
684	684	682	677	672	673	684	686	697	676	23	46	701	10	42	649	52	29
692	690	678	682	683	679	678	675	675	681	2	20	702	8	45	666	36	30
675	679	676	670	665	666	672	669	679	672	5	47	685	9	55	660	25	31
672	672	673	675	676	675	676	676	677	674							30	
670	671	672	674	675	675	675	675	675	674							21	
671	672	672	673	673	673	674	674	676	673								

APRIL, 1916.

34000γ PLUS TABULAR QUANTITIES.

679	681	681	678	680	676	677	677	675	676	3	45	690	10	18	662	28	1
681	676	676	678	682	681	679	678	676	677	6	39	684	10	44	661	23	2
664	665	670	674	676	676	676	676	676	671	6	21	682	10	32	655	27	3
680	676	676	676	680	681	678	677	677	680	9	34	686	1	30	673	13	4
666	664	664	667	666	670	670	672	671	670	5	30	679	12	50	662	17	5
668	666	669	669	670	676	678	679	679	672	24	00	679	2	24	660	19	6
670	666	665	668	673	667	669	676	676	672	0	00	681	11	48	660	21	7
670	668	670	672	672	674	674	676	677	672	1	56	682	8	33	656	26	8
673	669	669	668	668	670	672	674	674	672	6	51	680	9	39	663	17	9
672	670	670	669	670	671	671	671	672	671	5	31	677	9	45	664	13	10
678	671	671	671	673	672	673	672	675	671	14	15	680	10	53	660	20	11
671	666	666	669	671	668	669	671	672	672	2	55	677	8	22	664	13	12
675	671	670	673	675	673	672	672	675	673	14	17	680	9	28	668	12	13
677	671	670	671	670	669	671	674	678	673	2	48	678	20	22	662	16	14
672	673	674	675	679	675	669	656	662	672	3	56	684	22	30	655	29	15
679	676	675	680	679	678	675	675	674	676	1	02	689	12	42	665	24	16
676	(677)	679	678	(679)	676	675	673	674	671	17	00	680	10	30	657	23	17
681	677	677	681	682	682	682	679	677	675	3	29	686	9	03	659	27	18
674	676	673	677	682	679	679	675	674	677	19	12	682	12	06	670	12	19
677	673	673	677	680	678	679	679	678	677	14	12	682	7	48	668	14	20
672	669	671	677	678	681	681	677	674	675	20	46	682	13	15	668	14	21
677	675	672	677	679	680	681	681	679	678	3	45	683	0	00	667	16	22
668	668	667	669	670	672	673	673	673	673	0	18	680	17	39	667	13	23
667	664	668	668	668	668	668	669	672	670	1	33	682	16	20	664	18	24
679	680	674	670	665	669	671	683	691	670	23	47	693	19	18	645	48	25
682	676	673	674	672	678	672	673	678	678	0	20	702	20	02	665	37	26
682	683	675	674	671	671	670	675	667	676	11	00	689	23	48	661	28	27
685	669	670	674	664	645	649	663	661	669	13	15	686	21	52	639	47	28
683	679	679	678	676	673	672	669	677	675	0	30	687	1	52	658	29	29
672	672	674	674	672	671	671	669	670	671	0	09	686	10	00	655	31	30
675	672	672	674	674	673	673	674	674	673							22	
673	670	671	673	675	675	674	674	674	673							18	
672	669	670	671	672	673	674	674	674	673								

MAY, 1916.

34000γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
2	677	670	673	676	674	673	674	675	672	666	666	666	669	670	671
3	674	671	674	675	676	674	674	677	667	663	663	666	667	671	676
4*	676	676	675	676	680	681	680	680	676	679	677	675	675	680	680
5	681	673	671	677	676	676	676	677	673	671	672	673	672	674	677
6	673	674	677	676	684	681	684	682	679	682	678	677	675	681	682
7	677	675	674	676	675	676	676	676	671	668	672	676	672	669	671
8	683	683	675	676	679	679	680	680	680	677	680	680	681	681	682
9	675	679	687	675	677	679	679	677	675	675	680	680	680	680	681
10	675	674	675	674	669	669	675	675	679	684	684	684	682	685	689
11	678	692	674	673	675	675	680	679	670	675	680	687	685	689	689
12	678	685	686	682	682	681	682	672	670	668	665	670	674	685	688
13*†	681	680	676	680	680	680	676	667	663	667	675	677	682	686	686
14*†	678	679	681	687	682	674	677	674	668	666	669	674	678	679	680
15*†	671	674	676	677	678	676	680	679	675	672	679	680	681	685	690
16	669	672	673	677	677	677	681	678	673	673	673	677	682	687	689
17	666	671	671	678	679	680	684	678	675	677	676	675	675	677	679
18*†	670	671	672	676	676	678	680	676	668	666	665	663	663	668	671
19*	669	671	667	671	676	676	676	673	667	664	663	664	667	672	675
20	667	667	667	668	670	668	673	676	679	679	677	673	672	673	672
21	675	665	665	666	670	674	679	679	671	669	675	682	684	676	681
22	683	696	680	670	675	675	670	679	689	692	693	687	684	679	675
23	675	674	674	683	675	673	668	664	661	668	670	674	676	674	683
24	675	674	682	683	679	674	674	667	669	669	667	673	687	684	687
25*	677	683	678	678	678	677	672	664	661	669	677	682	682	687	686
26*	677	678	678	680	677	677	678	673	673	677	682	682	686	690	687
27*†	676	675	677	680	677	677	678	673	668	671	677	681	685	686	687
28*	671	675	674	674	675	676	675	676	679	680	680	681	684	680	676
29	669	672	673	674	675	675	675	671	670	675	675	670	668	665	669
30	664	668	671	673	676	677	672	670	657	662	664	677	682	681	684
31	667	674	667	667	666	662	675	675	674	671	672	672	678	683	685
Mean.....	674	676	675	676	676	676	677	675	672	673	674	676	678	679	681
Mean*.....	675	676	675	678	678	677	677	674	670	671	674	676	678	681	682
Mean†.....	675	676	676	680	679	677	678	674	668	668	673	675	678	681	683

JUNE, 1916.

34000γ PLUS TABULAR QUANTITIES.

1	679	677	673	677	674	678	681	677	678	682	682	682	676	676	675
2*†	672	675	676	679	679	681	683	676	671	665	658	657	665	666	673
3*†	674	673	673	673	674	678	678	677	674	679	678	677	671	675	677
4*	671	671	669	671	672	674	674	672	674	679	679	677	671	674	679
5*	672	668	668	668	670	672	672	668	667	676	681	682	680	676	677
6	670	670	669	675	676	676	674	672	667	671	676	680	683	684	685
7	685	683	676	676	675	679	677	674	674	679	683	686	685	681	679
8	682	672	672	677	678	681	680	680	683	685	688	693	705	696	692
9	684	685	680	680	681	680	675	670	670	678	683	679	682	683	683
10*†	680	681	681	679	678	677	674	673	681	689	693	699	698	693	689
11*	680	683	682	680	680	680	679	675	675	680	683	683	688	689	686
12	682	683	684	682	680	683	682	679	680	683	683	688	691	689	694
13	674	677	678	682	685	681	682	673	673	678	681	682	681	682	682
14*	677	677	681	681	680	681	680	679	672	668	672	675	676	673	673
15*†	673	676	671	675	680	680	678	675	671	671	676	680	679	680	684
16*†	673	673	674	678	678	679	682	678	677	669	670	670	664	655	660
17*	671	668	671	671	672	676	677	675	672	675	675	670	671	679	680
18	669	669	669	672	670	674	677	676	667	672	672	668	662	661	667
19	664	668	671	674	672	674	670	670	668	674	681	682	673	677	682
20	677	677	672	680	675	673	668	668	670	666	673	677	679	677	675
21	673	673	677	673	669	672	673	670	669	671	672	672	671	672	672
22	670	670	670	670	669	669	667	666	665	682	682	688	688	687	680
23	684	686	690	686	686	685	681	680	671	679	684	689	688	691	693
24	687	687	687	686	685	682	681	673	672	677	682	682	677	685	688
25	680	683	680	680	678	676	674	666	661	668	675	674	679	683	683
26	677	680	681	681	680	681	675	671	666	666	669	671	669	671	674
27	673	676	677	681	681	682	679	670	665	668	671	676	679	668	669
28	674	678	686	684	683	684	684	687	682	683	687	687	688	694	696
29	684	684	685	685	687	691	690	685	679	672	674	680	685	687	683
30	678	678	682	689	686	684	676	677	679	686	691	694	694	698	695
Mean.....	676	677	677	678	678	679	677	674	672	676	678	680	680	680	681
Mean*.....	674	674	675	676	676	678	678	675	673	675	676	677	676	676	678
Mean†.....	674	676	675	677	678	679	679	676	675	675	675	677	675	674	677

*Ten least disturbed days.

†Five international quiet days.

MAY, 1916.

34000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
681	675	676	682	681	675	673	665	670	676	13	40	685	22	34	665	162	1
657	669	673	674	677	673	673	678	676	672	0	30	678	15	01	653	25	2
678	678	678	678	676	675	679	679	679	674	5	20	686	10	30	662	24	3
679	675	675	675	677	677	680	677	676	677	5	32	684	12	00	672	12	4
677	674	674	674	680	681	681	677	676	676	0	42	681	10	30	664	17	5
685	679	676	676	677	677	677	678	677	679	6	42	694	3	09	670	24	6
675	677	673	671	670	674	672	670	675	673	0	09	678	14	00	664	14	7
685	676	673	673	669	674	673	674	682	678	0	52	689	19	42	669	20	8
681	678	676	677	676	672	676	676	676	678	2	30	687	20	29	672	15	9
690	680	676	676	680	676	672	672	669	678	15	04	693	23	09	665	28	10
685	684	680	676	680	677	680	681	677	680	1	33	696	8	03	665	31	11
688	683	679	678	675	675	675	675	676	678	14	49	692	10	30	665	27	12
686	682	677	672	673	676	677	673	676	677	13	27	687	2	39	663	24	13
679	678	675	675	675	670	670	675	670	676	3	22	687	9	10	665	22	14
686	681	681	677	677	675	672	671	668	678	14	45	691	23	30	668	23	15
690	683	683	678	669	672	673	670	670	677	13	41	693	19	18	664	29	16
680	679	675	675	675	674	674	671	671	676	6	12	685	0	40	663	22	17
674	671	671	672	675	676	676	675	671	672	6	00	681	12	14	661	20	18
672	670	670	672	673	671	671	671	671	670	4	53	680	10	46	662	18	19
672	672	672	672	677	676	676	672	676	673	8	36	680	2	09	667	13	20
675	678	675	674	672	670	666	666	688	674	12	23	688	22	15	652	36	21
676	680	677	676	674	680	675	678	684	680	1	22	701	6	32	662	39	22
683	678	675	677	674	680	683	679	683	675	23	27	688	8	23	656	32	23
687	684	678	678	679	678	679	674	675	677	13	35	688	7	25	661	27	24
687	686	679	676	673	676	674	673	676	677	13	37	690	8	00	658	32	25
691	677	674	676	673	673	669	674	674	678	13	20	691	22	21	668	23	26
685	685	682	681	676	672	672	672	672	678	14	13	689	8	36	668	21	27
676	674	671	668	670	668	667	663	666	674	12	55	685	22	00	662	23	28
677	682	678	677	674	673	669	667	665	672	15	52	683	13	29	660	23	29
686	689	684	680	676	672	668	672	667	674	16	47	695	8	42	641	54	30
687	683	686	683	684	683	682	678	678	676	5	04	692	0	10	662	30	31
681	679	677	676	675	675	674	673	675	676							25	
682	678	676	674	674	673	673	672	672	676							22	
682	679	677	675	675	674	673	674	673	676								

JUNE, 1916.

34000 γ PLUS TABULAR QUANTITIES.

676	676	680	680	681	680	677	676	676	678	10	34	685	2	23	669	16	1
679	679	680	680	683	680	679	679	679	675	19	16	683	11	44	653	30	2
677	677	672	672	677	677	677	674	673	675	10	01	680	12	28	670	10	3
684	678	673	670	674	674	674	674	673	674	15	54	684	1	57	668	16	4
675	671	671	670	671	673	674	674	674	673	11	44	683	8	15	663	20	5
683	682	680	668	672	673	673	678	686	676	17	00	687	18	11	664	23	6
682	676	677	676	674	679	681	683	682	679	22	51	686	7	44	669	17	7
688	677	682	682	682	680	681	682	682	683	12	45	706	2	00	667	39	8
683	682	682	678	678	678	678	678	680	680	1	12	689	7	22	667	22	9
685	680	680	680	680	680	680	681	680	683	12	09	699	7	40	671	28	10
688	684	684	682	675	675	674	675	679	681	13	22	692	8	31	671	21	11
696	691	687	686	682	679	678	679	682	684	15	04	697	19	47	676	21	12
679	677	677	674	676	677	678	677	675	678	11	16	687	7	35	664	23	13
676	677	680	680	680	677	676	673	672	676	2	53	682	9	23	668	14	14
684	679	679	679	679	679	676	676	675	677	15	09	684	9	07	667	17	15
672	676	676	677	677	677	674	673	672	673	6	32	682	13	30	655	27	16
679	674	674	678	679	678	678	677	674	675	13	58	683	12	00	666	17	17
669	668	667	671	675	675	679	679	675	671	21	49	680	12	53	659	21	18
678	671	669	672	676	673	676	677	680	674	14	40	684	0	29	661	23	19
672	661	661	669	670	673	678	678	679	673	3	12	681	16	51	657	24	20
673	670	667	663	667	670	670	671	672	671	2	15	678	17	54	661	17	21
681	677	676	676	676	677	685	691	697	677	23	37	700	7	36	662	38	22
697	691	687	687	684	683	684	683	687	686	15	20	697	8	11	667	30	23
683	676	675	679	678	676	678	681	681	681	14	15	690	7	39	669	21	24
682	678	673	676	672	673	674	674	675	676	13	25	686	8	09	660	26	25
676	682	683	679	679	678	673	674	674	675	17	15	684	9	26	661	23	26
675	681	684	684	681	680	679	677	676	676	17	31	685	7	59	664	21	27
696	695	692	689	689	686	685	682	685	686	15	11	697	0	49	670	27	28
684	696	689	688	683	682	684	683	680	684	16	28	702	9	27	671	31	29
695	686	685	684	694	681	675	680	684	685	19	25	702	21	00	649	53	30
682	679	678	678	678	677	678	678	679	678							24	
680	678	677	677	677	676	676	676	675	676							20	
679	678	677	678	678	677	676	676	676	677								

JULY, 1916.

34000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1	683	685	678	680	674	680	691	683	669	673	673	674	670	669	673
2	680	677	680	681	679	680	681	681	678	683	688	692	694	693	689
3	675	678	673	677	678	678	681	682	681	680	681	682	684	681	678
4	679	677	677	675	677	675	678	673	674	675	680	683	686	691	683
5	685	680	679	680	681	681	680	676	673	672	671	678	682	685	688
6	679	679	683	680	679	684	685	682	682	682	686	687	685	685	685
7 [†]	686	685	685	684	683	683	683	684	685	689	691	693	691	695	699
8	688	685	683	683	683	680	679	678	674	674	680	682	686	690	689
9	695	687	687	701	695	697	691	681	687	682	675	675	693	698	700
10	693	691	690	694	699	694	684	676	676	676	680	685	687	690	700
11	683	686	692	697	692	691	686	678	679	679	684	691	694	703	699
12	686	688	691	691	691	687	681	676	671	675	677	682	683	686	684
13	685	684	688	689	685	684	682	676	676	676	676	680	681	685	689
14*	678	676	679	682	682	686	683	678	674	680	684	687	692	697	697
15 [†]	676	676	677	680	681	681	680	673	673	678	682	686	691	687	687
16	675	674	675	679	679	682	681	678	676	675	676	679	673	679	684
17	681	679	677	676	679	682	681	678	674	680	684	686	692	693	693
18	680	686	680	687	681	681	681	675	677	686	686	686	690	695	690
19	684	683	678	683	679	680	682	679	679	679	675	685	686	689	689
20*	687	686	686	681	680	682	681	677	678	683	686	687	680	681	678
21*	685	684	685	679	676	676	680	675	668	664	673	678	684	685	682
22*	680	680	680	679	679	679	678	673	670	670	675	684	688	688	687
23	682	682	688	687	687	686	683	678	677	672	669	671	683	692	687
24	686	684	685	(685)	(685)	(687)	(690)	(686)	683	681	680	682	685	689	693
25	687	688	689	690	690	690	688	682	674	675	675	679	684	683	679
26	685	681	685	687	689	686	687	685	673	672	673	673	677	683	(683)
27 [†]	682	683	686	687	686	687	688	683	683	688	689	687	688	687	687
28 [†]	681	680	682	684	684	683	685	681	677	673	681	686	687	688	689
29 [†]	684	682	684	684	682	685	687	680	674	673	672	673	675	675	680
30	683	682	683	686	687	689	689	688	684	684	685	680	679	679	685
31*	681	683	683	685	683	689	689	688	685	684	681	680	676	676	678
Mean.....	683	682	683	684	683	684	684	679	677	678	680	682	685	687	687
Mean*.....	682	682	683	682	682	683	683	679	677	678	681	684	685	686	686
Mean†.....	682	681	683	684	683	684	685	680	678	680	683	685	686	686	688

AUGUST, 1916.

34000 γ PLUS TABULAR QUANTITIES.

1 [†]	678	674	675	677	677	679	680	679	675	674	676	679	676	679	681
2	673	674	674	679	677	672	677	677	672	674	680	688	690	691	689
3*	685	683	685	687	688	689	688	684	680	681	686	689	689	687	685
4	686	687	687	687	685	687	686	684	685	684	680	679	680	676	679
5	685	(686)	686	684	684	684	687	682	673	670	672	673	680	685	692
6	687	688	679	687	692	686	683	678	666	661	684	687	692	689	693
7	690	693	693	690	685	685	684	681	679	681	681	685	689	688	687
8	679	689	688	686	688	689	684	679	678	678	679	678	685	686	688
9	689	688	686	687	687	688	688	682	677	675	677	682	682	682	684
10*	684	684	686	687	687	688	686	682	678	679	678	678	679	683	687
11	684	687	688	689	688	688	686	678	675	679	683	686	680	685	690
12	685	688	691	692	692	693	688	675	681	685	682	679	680	684	688
13	683	686	685	689	684	685	686	686	686	685	685	689	682	682	680
14*	677	682	688	692	691	692	692	686	680	676	685	682	682	683	681
15 [†]	686	685	685	687	687	688	688	683	680	686	688	683	674	669	672
16 [†]	686	681	682	682	682	686	686	673	667	667	669	673	673	674	676
17 [†]	682	682	682	683	681	682	682	681	681	684	686	687	692	692	692
18*	687	684	683	682	682	683	682	677	677	681	686	689	688	686	689
19	686	687	687	686	684	687	682	672	672	682	683	686	688	693	690
20	691	691	691	694	692	691	684	677	672	677	682	687	690	692	688
21	691	688	687	687	686	680	672	657	655	657	662	669	673	677	685
22	683	686	686	687	687	687	685	673	671	672	667	668	674	683	702
23	693	694	697	700	704	700	692	682	681	686	686	689	692	692	697
24	696	692	692	697	695	692	690	682	673	674	672	672	675	677	684
25 [†]	690	691	692	694	693	692	692	692	685	682	677	676	676	677	682
26	686	687	692	692	692	694	689	677	680	682	682	683	684	685	685
27	654	707	721	729	726	719	713	701	699	700	699	699	703	709	709
28	693	696	698	699	697	699	700	693	690	692	692	696	694	694	694
29	697	696	696	698	698	697	697	691	694	692	687	683	691	693	692
30	692	695	693	693	690	692	691	681	690	687	688	691	688	687	683
31*	691	689	683	686	690	688	687	683	687	696	697	692	687	687	687
Mean.....	685	688	688	690	689	689	687	681	679	680	682	683	684	685	687
Mean*.....	685	684	684	684	686	687	686	682	679	681	683	683	682	682	683
Mean†.....	684	683	683	685	684	685	686	682	678	679	679	680	678	678	681

* Ten least disturbed days.

† Five international quiet days.

JULY, 1916.

34000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
r	r	r	r	r	r	r	r	r	r	h	m	r	h	m	r	r	
683	688	684	684	686	687	687	682	682	680	6	36	695	13	35	662	33	1
684	675	678	682	683	680	683	684	679	683	12	49	698	2	40	673	25	2
676	674	675	681	682	682	679	683	679	679	22	30	687	15	51	669	18	3
686	679	682	682	682	686	686	684	685	681	13	46	696	7	00	665	31	4
682	678	682	682	683	683	683	684	683	680	0	00	694	8	27	664	30	5
685	678	678	678	681	684	684	686	687	683	11	05	689	17	46	673	16	6
695	686	677	681	683	683	683	683	683	686	14	25	700	17	02	676	24	7
690	691	694	677	682	680	680	681	691	683	16	39	701	18	15	670	31	8
695	693	692	688	692	689	693	693	694	691	3	20	705	7	53	668	37	9
704	697	695	692	691	686	682	687	678	689	14	33	705	23	51	672	33	10
702	695	694	689	690	685	685	686	690	690	13	25	704	8	08	674	30	11
691	689	689	684	683	683	687	687	684	684	4	37	696	8	28	667	29	12
689	681	677	678	682	677	677	676	674	681	3	16	692	23	47	671	21	13
694	689	687	685	685	681	680	676	675	684	14	26	697	8	32	670	27	14
686	687	684	684	685	683	682	677	677	681	12	45	691	8	27	672	19	15
685	687	682	686	686	681	680	681	685	680	16	27	689	12	30	671	18	16
697	690	685	680	687	684	684	683	680	684	15	24	697	8	42	667	30	17
686	694	689	686	687	687	687	686	687	685	13	50	696	7	18	671	25	18
680	681	681	681	681	681	681	686	691	682	14	03	693	2	36	674	19	19
682	679	679	679	682	683	683	684	684	682	1	00	687	7	48	674	13	20
680	681	675	676	677	677	678	678	679	678	2	15	685	9	30	663	22	21
689	690	689	680	671	675	676	680	681	680	16	17	691	8	51	667	24	22
686	684	686	679	683	683	680	679	678	682	13	25	693	10	25	664	29	23
695	692	691	687	684	686	682	686	686	686	0	48	699	9	50	675	24	24
680	683	682	682	684	681	680	680	684	683	4	49	693	8	32	670	23	25
(683)	(683)	682	683	683	683	684	683	683	682	4	21	691	9	30	671	20	26
685	685	685	681	683	684	681	681	682	685	10	12	692	24	00	681	11	27
691	692	687	688	683	684	680	681	683	684	15	15	692	8	48	667	25	28
680	681	681	684	688	688	686	685	682	681	6	06	688	10	27	669	19	29
686	687	686	685	688	687	687	687	683	685	5	23	691	11	50	675	16	30
678	673	674	677	679	679	679	678	677	681	6	11	690	16	30	671	19	31
687	685	684	683	684	683	683	683	683	683							24	
686	684	682	682	682	682	681	680	680	682							20	
687	686	683	684	684	683	682	681	682	683								

AUGUST, 1916.

34000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
r	r	r	r	r	r	r	r	r	r	h	m	r	h	m	r	r	
681	679	677	678	680	681	680	678	674	678	15	45	683	23	24	670	13	1
686	685	686	685	687	690	689	687	686	682	14	02	694	8	05	671	23	2
685	685	686	688	689	687	688	686	687	686	5	52	692	8	30	680	12	3
681	683	685	685	681	682	684	683	686	683	1	05	688	13	40	675	13	4
690	686	684	682	678	682	686	686	694	683	23	43	702	11	00	668	34	5
693	686	686	690	690	688	685	684	690	685	4	02	702	8	46	653	49	6
693	688	688	688	686	686	688	691	679	687	1	05	698	7	50	674	24	7
689	684	686	685	683	682	684	685	688	684	2	16	697	7	19	674	23	8
684	688	686	684	683	684	682	680	686	684	0	39	696	9	35	673	23	9
693	690	691	690	687	684	683	682	683	685	2	35	695	11	10	676	19	10
692	692	688	684	687	687	683	683	681	685	16	11	700	7	48	674	26	11
691	683	685	688	690	688	685	685	679	686	5	45	697	7	51	670	27	12
681	685	690	690	690	693	690	689	685	686	6	16	694	14	29	679	15	13
681	681	684	687	691	690	690	688	687	685	6	33	696	9	25	673	23	14
681	684	686	687	690	691	690	687	687	684	20	13	691	13	35	665	26	15
680	682	682	682	685	687	687	687	686	680	22	15	688	9	18	665	23	16
690	686	681	686	686	687	688	689	687	685	13	55	696	7	11	677	19	17
691	688	683	682	678	688	687	687	687	684	15	57	692	7	54	674	18	18
690	682	680	681	681	675	677	686	692	684	15	06	697	7	54	663	34	19
687	689	687	687	688	690	689	687	687	687	4	15	698	7	54	672	26	20
681	(681)	(682)	(683)	(685)	(686)	(686)	(685)	685	678	1	34	694	9	11	652	42	21
704	703	687	684	682	693	694	692	691	685	14	50	714	10	38	667	47	22
697	697	699	678	693	693	694	701	699	693	4	50	709	8	15	672	37	23
696	695	691	689	691	689	689	687	689	687	4	12	705	12	00	670	35	24
687	687	687	688	687	687	687	687	686	686	3	35	694	11	15	672	22	25
697	705	696	680	672	662	667	660	656	683	16	35	713	23	12	638	75	26
709	704	703	706	706	702	699	702	697	705	3	17	734	0	28	653	81	27
694	694	697	700	700	698	697	693	690	695	6	10	702	8	03	687	15	28
691	694	697	697	699	699	700	699	991	695	8	30	703	12	40	678	25	29
686	691	691	692	694	696	694	692	689	690	20	38	698	7	40	675	23	30
687	687	687	690	692	691	691	687	688	689	9	58	698	2	35	681	17	31
689	689	688	687	687	688	688	687	686	686							29	
686	685	684	686	686	687	687	686	685	684							19	
684	684	683	684	686	687	687	685	685	683								

SEPTEMBER, 1916.

34000γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1*†	688	687	687	688	689	689	688	681	678	686	683	683	687	687	686
2	688	688	689	689	688	692	689	677	676	671	667	668	671	677	680
3	697	700	696	697	687	688	692	687	681	672	686	687	687	684	687
4	692	699	692	683	688	692	688	688	686	683	683	684	688	692	690
5	693	702	695	689	696	692	690	684	678	683	686	688	688	688	688
6	693	694	695	695	693	688	690	687	683	683	684	688	690	693	689
7*	694	694	693	692	696	690	687	678	674	674	677	679	683	679	686
8*	689	690	693	693	689	682	693	684	674	674	674	677	687	689	690
9	689	690	691	693	694	694	692	688	679	673	672	670	674	687	687
10	690	(691)	(692)	(694)	(694)	(694)	(693)	(690)	686	680	680	680	680	684	682
11	683	679	688	691	695	695	690	683	676	675	679	673	674	674	675
12	690	678	690	689	690	693	692	690	688	687	688	683	685	691	691
13*	691	692	691	692	691	692	692	687	689	678	682	686	681	681	682
14*	688	686	686	688	690	691	691	686	681	679	682	682	677	677	676
15	691	684	686	686	687	686	689	686	679	677	671	667	673	673	672
16	687	694	700	696	695	687	685	677	672	664	658	662	667	664	671
17	688	687	693	693	691	692	691	681	675	674	675	678	682	682	682
18*	696	688	695	687	686	690	687	675	668	673	676	682	682	683	684
19*†	693	694	692	693	692	690	688	683	682	679	679	679	683	691	696
20*†	693	692	692	692	691	690	689	684	680	679	683	684	684	686	690
21†	692	692	693	693	696	693	690	686	680	680	680	684	688	690	690
22	690	692	694	694	693	692	690	682	675	678	682	686	685	687	684
23	692	694	697	697	695	694	692	686	682	681	682	682	683	681	685
24	688	687	688	697	695	698	687	690	678	676	676	676	679	690	690
25	688	689	693	695	697	698	697	689	684	680	680	684	684	680	684
26	690	688	690	693	694	694	691	684	679	678	676	674	676	678	683
27	688	692	692	692	700	690	691	686	680	676	678	684	685	683	689
28*	682	681	686	691	692	694	693	690	679	684	684	686	684	685	686
29*†	686	686	687	688	688	689	689	688	684	688	688	688	687	684	683
30	684	680	684	683	682	684	686	675	676	672	671	671	665	672	678
Mean.....	690	690	691	691	692	691	690	684	679	678	679	680	681	683	685
Mean*.....	690	689	690	690	690	690	690	684	679	679	681	683	684	684	686
Mean†.....	690	690	690	691	691	690	689	684	681	682	683	684	686	688	689

OCTOBER, 1916.

34000γ PLUS TABULAR QUANTITIES.

1	699	697	701	698	700	698	699	693	680	685	685	689	688	688	688
2	694	697	693	698	689	689	691	689	681	678	680	683	679	673	686
3	693	692	693	691	691	694	696	689	680	676	674	674	675	680	681
4*†	691	691	691	691	689	687	686	683	678	679	685	688	687	686	688
5	688	689	689	689	687	685	682	682	678	675	681	683	681	681	679
6	686	692	694	700	693	689	689	686	673	675	671	668	682	681	676
7	703	703	709	711	701	698	694	691	686	684	683	695	684	691	697
8	688	683	691	693	693	694	691	675	677	677	672	678	679	685	684
9	689	683	682	690	693	692	687	679	675	674	675	677	677	680	682
10	690	693	695	696	697	696	694	684	681	674	671	670	672	677	679
11	690	692	691	691	695	699	695	687	677	674	672	682	683	684	687
12	691	691	694	696	693	694	694	690	682	682	677	675	677	682	683
13	692	688	695	699	698	698	694	686	680	675	676	677	680	678	675
14	699	698	697	698	698	697	696	691	686	684	680	680	682	682	684
15*	694	695	691	693	694	698	697	695	689	688	686	687	690	689	687
16*†	697	695	694	694	692	692	694	692	686	681	679	678	679	680	683
17*†	697	698	697	695	694	694	694	692	687	687	689	689	688	690	690
18*†	696	695	694	694	693	692	691	685	680	678	679	680	679	676	677
19	695	696	695	695	695	693	693	693	693	696	696	697	698	695	690
20	694	697	698	696	693	690	687	684	689	684	683	686	685	687	688
21	698	696	698	699	696	---	---	---	---	---	---	---	---	---	---
22	698	702	695	694	697	699	696	688	684	677	684	688	689	688	683
23	695	693	701	700	697	696	694	691	688	689	689	689	698	697	693
24	(688)	(688)	(689)	(689)	(689)	(690)	(690)	(686)	681	679	683	688	688	688	689
25	695	692	701	702	702	700	698	695	---	---	---	---	---	---	---
26*	692	692	695	696	696	697	698	692	686	682	683	684	683	678	675
27*	690	689	692	694	694	694	694	689	682	678	676	677	679	676	676
28*†	686	687	688	689	689	691	689	685	679	675	671	671	671	672	676
29	687	687	687	688	688	688	688	682	679	675	673	---	---	---	---
30*	688	687	690	689	689	690	691	691	685	682	680	676	675	674	676
31*	691	691	689	691	690	689	691	691	688	688	690	693	691	686	683
Mean.....	693	693	694	695	694	693	692	688	683	681	680	682	683	683	683
Mean*.....	692	692	692	693	692	692	692	690	684	682	682	682	682	681	681
Mean†.....	693	693	693	693	691	691	691	687	682	680	681	681	681	681	683

* Ten least disturbed days.

† Five international quiet days.

SEPTEMBER, 1916.

34000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	h	m	γ	h	m	γ	γ	
687	685	687	687	691	691	692	691	691	687	21	25	693	8	00	677	16	1
681	680	676	682	683	683	688	701	702	683	22	50	715	10	36	666	49	2
689	687	692	693	698	699	699	700	694	690	3	30	705	9	40	667	38	3
688	672	668	681	683	683	689	694	696	687	1	42	708	17	46	657	51	4
688	688	688	688	689	691	692	693	693	690	1	41	708	8	10	675	33	5
690	691	687	682	684	686	689	689	692	689	2	45	699	20	08	678	21	6
690	694	691	690	689	687	688	687	688	687	4	25	701	8	18	669	32	7
689	684	687	689	689	691	688	689	688	686	6	09	696	9	05	670	26	8
688	687	687	692	693	693	689	690	689	687	4	30	694	10	18	670	24	9
683	684	690	690	678	692	691	685	689	687	14	10	695	19	35	669	26	10
685	690	687	694	689	689	695	694	693	685	24	00	706	11	15	673	33	11
685	690	685	695	700	700	699	690	693	690	0	00	706	1	03	669	37	12
681	682	684	696	697	696	694	691	690	688	19	53	698	9	30	676	22	13
676	680	685	690	691	692	691	690	690	685	16	20	692	15	40	674	18	14
679	685	686	687	688	689	691	688	686	683	21	10	695	11	15	663	32	15
678	677	682	685	687	687	688	685	686	681	1	30	701	10	35	657	44	16
683	692	686	690	692	692	692	692	694	687	23	58	699	10	25	670	29	17
686	683	685	692	692	692	691	690	692	686	0	00	699	8	30	665	34	18
695	693	693	691	690	690	692	692	692	689	14	45	698	11	15	678	20	19
688	692	691	690	689	688	687	687	690	688	16	00	693	9	00	679	14	20
692	687	691	689	686	687	690	691	692	689	4	52	701	10	00	679	22	21
687	685	686	686	680	679	685	690	693	686	3	25	695	8	40	675	20	22
684	683	687	690	687	683	685	686	688	687	3	57	702	21	07	678	24	23
691	692	693	691	692	691	689	688	689	688	4	00	702	9	10	674	28	24
688	683	691	693	694	687	684	693	694	689	5	15	698	21	08	679	19	25
685	675	687	687	681	674	675	698	687	684	22	35	711	12	10	672	39	26
693	689	689	693	695	691	691	691	688	689	4	30	703	9	40	673	30	27
688	687	688	690	690	686	689	690	689	687	6	05	695	8	25	678	17	28
685	683	685	687	688	687	687	687	686	687	6	00	691	14	00	683	8	29
683	683	679	679	686	688	694	702	694	681	22	15	707	12	48	664	43	30
686	685	686	689	689	689	690	691	691	687							28	
686	686	688	690	691	690	690	689	690	687							21	
689	688	689	689	689	689	690	689	690	688								

OCTOBER, 1916.

34000 γ PLUS TABULAR QUANTITIES.

686	694	696	692	695	699	699	704	698	694	21	58	708	8	08	674	34	1
690	690	689	691	693	692	693	694	694	689	1	15	702	13	30	670	32	2
682	681	684	686	687	688	688	689	692	686	5	58	697	10	39	672	25	3
686	686	685	683	682	683	684	686	688	686	0	00	693	9	18	677	16	4
676	667	669	675	676	679	680	687	688	681	22	55	692	16	33	665	27	5
686	676	689	682	680	663	688	691	701	684	23	15	714	20	30	651	63	6
688	686	693	698	692	688	692	687	692	694	2	50	718	10	03	677	41	7
687	690	690	689	690	688	683	686	688	685	4	57	697	7	50	667	30	8
682	692	693	689	689	686	690	692	692	685	17	36	694	9	33	672	22	9
687	693	695	696	695	695	694	693	694	688	3	58	700	11	08	667	33	10
682	686	691	694	694	694	693	692	690	688	5	13	704	10	10	667	37	11
686	688	691	691	681	693	703	701	698	689	21	52	704	19	50	673	31	12
680	684	685	682	708	708	707	704	702	690	19	38	711	11	05	673	38	13
688	692	692	694	694	696	698	697	694	692	4	05	711	10	40	679	32	14
688	690	691	694	695	697	697	697	697	692	6	00	698	8	33	686	12	15
690	689	688	690	694	696	697	699	699	690	22	30	699	11	50	677	22	16
689	686	686	689	691	692	694	695	696	692	1	52	699	9	05	686	13	17
682	685	687	687	688	689	691	692	694	687	0	30	696	14	00	676	20	18
688	688	691	691	688	688	692	694	695	693	10	38	699	15	35	687	12	19
691	688	686	689	691	688	690	691	699	690	2	38	700	8	05	680	20	20
...	...	691	695	696	695	694	696	699	...	..	..	...	..	..	...	..	21
687	691	696	693	694	694	698	694	694	692	1	32	709	9	00	673	36	22
696	697	697	697	697	694	691	689	(689)	694	2	35	706	11	55	685	21	23
690	693	695	695	700	697	695	693	691	690	19	08	702	8	42	675	27	24
...	...	...	...	697	696	696	695	692	...	..	..	...	..	..	...	..	25
678	686	690	689	690	692	695	695	692	689	3	00	699	14	03	674	25	26
679	683	688	690	693	693	691	689	689	686	5	09	694	14	08	674	20	27
680	684	685	689	690	690	690	689	689	684	5	36	692	11	15	669	23	28
...	679	...	...	...	...	692	691	691	...	..	..	...	..	..	...	..	29
682	682	687	687	690	689	691	690	691	686	21	05	692	13	45	674	18	30
686	686	686	686	688	687	688	690	693	689	11	50	693	14	44	683	10	31
685	687	689	690	691	691	693	693	694	689							26	
684	686	687	688	690	691	692	692	693	688							18	
685	686	686	688	689	693	693	694	695	688								

NOVEMBER, 1916.

34000 γ PLUS TABULAR QUANTITIES.

Day	1 ^h	2 ^h	3 ^h	4 ^h	5 ^h	6 ^h	7 ^h	8 ^h	9 ^h	10 ^h	11 ^h	Noon	13 ^h	14 ^h	15 ^h
1†	693	696	690	689	688	689	691	692	686	684	680	678	674	676	680
2	687	692	687	687	686	684	686	687	681	676	674	675	677	677	681
3	687	689	689	685	681	682	681	676	669	665	665	679	689	687	684
4	705	708	703	703	701	697	696	688	685	679	675	670	675	683	682
5	702	702	697	702	696	695	692	692	690	687	686	685	680	685	682
6	697	700	698	698	696	697	694	691	684	675	677	679	672	684	682
7	691	691	696	698	698	698	697	693	688	684	678	675	687	685	685
8	692	692	692	694	695	696	696	695	683	674	668	664	673	677	682
9	689	691	694	695	695	695	695	690	681	680	678	676	677	673	673
10	691	699	697	697	698	698	698	694	684	672	666	665	664	667	672
11	689	687	689	691	694	693	693	690	683	678	677	676	672	672	675
12	685	684	690	694	696	694	688	691	687	680	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	678	680	686	679	685
14*†	692	691	692	693	692	693	694	694	688	679	675	677	676	680	680
15*	693	694	692	692	692	695	695	696	685	683	684	687	688	688	687
16*	694	696	696	694	692	693	694	694	693	685	680	680	685	689	690
17*	693	694	693	695	692	691	690	687	681	678	676	673	670	675	679
18	688	689	693	692	690	690	687	685	684	683	683	685	686	689	689
19*	692	695	698	697	695	692	691	690	686	684	679	679	679	680	682
20*†	692	695	697	697	695	694	692	690	688	687	686	687	683	683	685
21*†	690	694	694	696	696	694	693	691	682	679	677	679	675	674	682
22*	691	691	693	694	698	687	688	684	680	681	680	679	682	685	688
23	686	691	693	695	695	694	694	690	683	680	673	669	670	672	677
24*†	688	689	691	694	695	695	696	694	690	686	685	685	684	685	690
25	690	690	691	693	695	695	695	694	686	682	681	683	682	690	685
26	688	691	695	694	698	698	698	695	687	681	672	670	670	673	675
27	690	692	691	695	695	696	697	698	692	688	682	677	674	675	675
28	694	693	693	695	695	695	697	699	693	685	676	677	680	682	685
29	694	691	694	693	690	693	696	698	693	685	(684)	(686)	(686)	687	686
30	685	687	686	683	684	683	684	687	675	674	680	680	687	691	685
Mean.....	692	693	693	694	693	693	693	691	685	680	678	678	678	681	682
Mean*.....	692	694	694	694	694	692	692	691	686	683	680	680	680	682	684
Mean†.....	691	693	693	694	693	693	693	692	687	683	681	681	678	680	683

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34000 γ PLUS TABULAR QUANTITIES.

1	693	694	694	695	700	687	689	691	(689)	(695)	695	680	677	680	683
2	695	695	695	696	691	693	696	694	692	681	680	690	685	686	698
3	697	696	696	699	696	689	690	687	685	677	676	682	683	688	693
4	693	698	698	697	695	693	692	691	685	679	677	681	686	693	698
5	...	...	...	...	...	...	...	...	...	...	689	687	685	682	687
6*†	694	699	701	703	701	699	702	699	694	687	680	676	679	682	683
7	691	693	694	696	696	696	697	695	687	678	675	677	...	...	...
8*	683	684	682	686	691	691	689	686	682	676	673	675	676	679	677
9*	687	687	689	691	692	690	691	694	688	677	672	667	667	669	674
10†	(691)	(693)	(694)	(697)	(699)	(699)	(698)	(698)	693	686	680	673	673	677	684
11	(691)	(694)	(695)	(698)	(700)	(701)	(700)	(700)	695	691	688	683	679	678	683
12	688	684	693	695	694	699	701	699	697	688	683	680	681	686	693
13	699	701	703	701	697	699	698	698	690	683	678	675	673	680	682
14	696	694	696	695	695	696	697	700	696	692	678	667	675	676	685
15	688	684	684	688	688	686	685	684	683	682	680	672	670	678	685
16	698	695	693	694	694	696	698	699	691	686	671	666	673	681	686
17	698	700	695	698	695	697	696	699	692	688	684	684	684	684	684
18	696	697	698	696	695	695	693	693	689	680	677	683	694	698	698
19*	695	697	697	697	697	693	692	694	688	679	671	673	679	681	682
20*	690	695	695	696	695	696	695	694	688	676	675	684	686	687	694
21*†	693	695	696	698	699	700	694	691	684	679	679	680	682	684	687
22*†	693	696	698	700	698	698	696	692	686	678	677	680	682	682	686
23*†	691	692	694	696	695	694	693	692	688	683	679	684	684	685	686
24*	692	693	693	697	697	697	695	695	690	686	685	685	685	685	681
25	689	690	692	693	694	695	695	694	689	687	687	686	682	681	680
26*	692	692	693	693	694	695	697	694	690	686	685	685	682	681	682
27	692	690	689	693	694	697	697	697	693	685	673	673	678	678	684
28	701	695	695	700	697	698	695	696	693	689	692	690	687	685	681
29	702	702	699	702	696	697	697	696	690	691	697	698	693	685	685
30	701	702	701	700	698	699	698	693	690	689	690	689	683	687	(688)
31	703	703	700	701	698	698	698	698	689	686	688	692	694	694	692
Mean.....	694	694	695	696	696	695	695	694	690	684	681	680	681	683	686
Mean*.....	691	693	694	696	696	695	694	693	688	681	678	679	680	682	683
Mean†.....	692	695	697	699	698	698	697	694	689	683	679	679	680	682	685

* Ten least disturbed days.

† Five international quiet days.

NOVEMBER, 1916.

34000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
r	r	r	r	r	r	r	r	r	r	h	m	r	h	m	r	r	
685	685	682	680	686	687	688	689	689	686	1	20	701	12	50	673	28	1
686	678	683	676	681	683	686	686	686	683	1	32	694	18	41	673	21	2
689	690	690	684	683	688	695	697	703	684	24	00	705	9	29	661	44	3
673	685	683	683	691	694	695	700	703	690	1	56	715	15	28	669	46	4
688	693	691	696	685	684	689	692	697	691	4	00	709	12	05	675	34	5
685	685	693	692	695	693	688	689	692	689	3	20	702	12	11	663	39	6
689	690	691	694	694	694	687	684	688	690	6	20	699	11	17	670	29	7
695	694	688	686	692	694	692	692	691	687	7	00	697	11	24	661	36	8
689	692	692	687	692	691	690	690	691	687	5	54	697	14	04	668	29	9
680	682	687	689	694	693	691	690	690	686	1	48	708	11	56	662	46	10
678	682	686	687	685	687	688	687	683	684	4	11	696	13	07	670	26	11
689	688	688	691	692	691	692	692	692	688	7	10	697	10	05	672	25	12
684	685	689	691	692	693	690	694	696	691	1	12	697	8	50	679	18	13
690	693	690	689	692	691	692	693	694	689	1	07	697	10	54	676	21	14
687	685	686	686	687	687	688	689	691	684	2	55	699	12	40	669	30	15
681	681	683	685	682	687	687	687	687	688	2	20	695	9	31	682	13	16
689	688	686	684	684	689	691	693	692	689	2	13	699	10	37	677	22	17
684	694	693	692	692	689	689	691	692	689	2	48	699	21	22	680	19	18
683	686	688	689	689	685	683	683	688	686	3	49	698	13	14	671	27	19
687	686	686	687	682	679	684	687	690	686	4	35	702	11	27	678	24	20
691	689	690	689	685	683	683	682	682	685	6	06	697	10	57	667	30	21
676	684	689	689	689	684	685	686	688	691	4	25	698	12	14	683	15	22
694	692	694	694	694	692	690	689	690	689	5	22	698	18	06	676	22	23
687	691	685	683	696	696	698	690	689	687	19	48	704	11	41	668	36	24
679	684	690	686	700	691	687	693	687	688	22	37	705	19	39	667	38	25
687	690	688	688	672	680	690	700	701	690	7	25	702	10	47	675	27	26
683	685	689	688	692	695	697	697	697	688	7	55	699	16	15	675	24	27
680	677	681	684	686	688	687	689	693	686	23	15	703	17	34	672	31	28
688	688	677	688	689	690	693	694	696	688								29
685	687	688	688	688	688	687	687	688	688								23
687	687	688	688	688	689	687	687	688	688								

DECEMBER, 1916.

34000 γ PLUS TABULAR QUANTITIES.

16 ^h	17 ^h	18 ^h	19 ^h	20 ^h	21 ^h	22 ^h	23 ^h	24 ^h	Mean	Maximum			Minimum			Range	Day
r	r	r	r	r	r	r	r	r	r	h	m	r	h	m	r	r	
682	688	684	683	690	697	697	694	700	690	4	07	705	11	41	670	35	1
692	689	693	694	685	688	692	687	693	691	6	00	701	10	08	672	29	2
698	696	688	690	690	687	687	692	690	690	3	35	703	10	06	671	32	3
700	(696)	(692)	(692)	(692)	(690)	(689)	(689)	689	691	1	42	701	10	07	673	28	4
690	694	694	693	691	693	693	692	693	...	...	...	...	...	...	...	...	5
686	692	693	695	696	694	691	690	690	692	3	00	705	11	50	673	32	6
...	686	683	688	690	687	684	682	683	...	7	00	697	...	...	...	...	7
681	685	688	687	687	685	686	686	687	683	5	30	691	10	35	672	19	8
681	688	690	692	693	692	689	688	(690)	685	7	28	696	13	12	665	31	9
687	686	688	690	694	695	694	693	692	690	(6 00)	(699)	11	51	671	(28)	10	
684	690	688	689	689	690	690	691	694	691	(6 00)	(701)	13	25	675	(26)	11	
697	694	690	688	689	690	691	693	693	691	6	06	703	12	27	679	24	12
687	688	689	691	697	695	695	697	697	691	2	28	703	12	08	670	33	13
690	676	678	681	687	685	684	685	686	687	7	20	701	11	22	666	35	14
684	667	688	696	697	694	694	697	699	686	21	55	701	16	34	661	40	15
688	687	687	687	690	692	697	697	699	689	7	15	704	11	00	664	40	16
686	690	694	694	695	692	694	695	696	692	1	20	704	11	06	682	22	17
696	693	693	691	691	692	693	694	696	693	14	04	699	10	12	676	23	18
685	688	686	690	691	689	688	689	688	688	4	03	700	10	52	669	31	19
692	693	692	691	691	691	690	694	692	690	2	07	698	10	04	672	26	20
690	692	694	694	694	692	690	691	693	690	5	08	704	9	45	677	27	21
690	693	693	692	691	691	691	690	690	690	4	10	700	10	05	676	24	22
688	688	691	692	691	690	689	690	690	689	4	00	696	9	37	676	20	23
680	681	688	692	692	691	692	692	691	690	5	12	698	15	12	677	21	24
690	685	689	693	697	697	697	697	692	690	21	15	698	14	56	676	22	25
687	685	685	687	691	697	697	691	693	690	20	55	699	14	09	680	19	26
682	682	685	690	690	690	693	693	695	688	24	00	703	10	47	665	38	27
682	678	678	694	695	697	702	699	702	693	0	15	709	17	10	671	38	28
686	688	689	688	694	698	702	705	705	695	3	18	707	13	59	682	25	29
(691)	(693)	(693)	693	695	688	693	696	706	694	1	45	707	12	21	681	26	30
694	685	679	686	695	700	698	699	704	695	24	00	706	17	45	671	35	31
688	687	688	690	692	692	693	693	694	690								29
686	688	690	691	692	691	690	690	690	689								25
688	690	692	693	693	692	691	691	692	690								

EARTHQUAKES.

A Bosch-Omori seismograph has been in operation since September, 1903. It consists of two pendulums, one recording north-south motion (N) and the other recording east-west motion (E). In the following tables the times are Greenwich mean time counted from mid-night.

Period of pendulums:
N, 21.1 sec.; E, 21.4 sec.; January, 1915, to October, 1916.
N, 19.5 sec.; E, 18.0 sec.; November and December, 1916.
Magnification: 10.
Steady mass: 10-12 kg.

The nomenclature of the International Seismological Association has been used to designate the different phases:

- P=Beginning of first preliminary tremors.
- S=Beginning of second preliminary tremors.
- L=Beginning of long waves of principal portion.
- M=Time of greatest amplitude of motion.
- C=End of principal portion.
- F=End of visible record.
- A=Maximum amplitude or one-half the maximum range. The quantities given indicate the actual movement of the stylus as measured on the seismogram.

Register of earthquakes.

No.	Date	Com- ponent	P	S	L	M	C	F	A
	1915		<i>h m s</i>	<i>h m s</i>	<i>h m s</i>	<i>h m s</i>	<i>h m</i>	<i>h m</i>	<i>mm</i>
319	June 6	N	21 37 16	21 42 03	21 45 05	21 46 14	21 55	22 40	1.8
		E	21 37 38	21 41 54	21 44 54	21 45 58	21 57	22 42	3.5
320	29	N	.. .. .	.. .. .	0 35 37	0 35 40	0 36	.. ..	0.1
		E	.. .. .	.. .. .	0 35 37	0 35 43	0 36	.. ..	0.1
321	July 31	N	.. .. .	.. .. .	2 22 24	2 29 10	2 38	.. ..	0.5
		E	.. .. .	.. .. .	2 20 ..	2 26 10	2 33	.. ..	0.1
322	Sept. 7	N	.. .. .	.. .. .	.. .. .	.. .. .	.. ..	.. ..	.. ..
		E	1 25 57	1 27 57	1 30 15	1 34 53	1 50	2 18	75+
323	Oct. 3	N	7 02 10	7 09 04	7 16 28	7 22 43	7 35	8 10	7.5
		E	7 02 04	7 09 20	7 16 25	7 20 00	7 34	8 10	4.7
324	11	N	19 34 04	.. .. .	19 34 43	19 35 12	19 39	19 47	24.0
		E	19 34 02	.. .. .	19 34 52	19 35 16	19 39	19 57	19.0
325	Nov. 21	N	.. .. .	.. .. .	0 38 40	0 45 00	0 58	.. ..	0.1
		E	0 29 12	0 33 06	0 37 56	0 48 04	0 58	1 17	0.2
326	Dec. 12	N	.. .. .	.. .. .	21 11 04	21 13 52	21 21	.. ..	0.4
		E	.. .. .	.. .. .	21 10 50	21 13 54	21 20	.. ..	0.2
	1916								
327	Jan. 1	N	.. .. .	.. .. .	14 28 02	14 37 58	14 48	15 19	1.5
		E	.. .. .	.. .. .	14 27 36	14 40 22	14 51	15 15	0.8
328	7	N	.. .. .	.. .. .	15 04 36	15 04 42	15 05	.. ..	1.0
		E	.. .. .	.. .. .	15 04 36	15 04 39	15 05	.. ..	0.8
329	13	N	.. .. .	.. .. .	9 25 ..	9 45 40	10 24	.. ..	0.8
		E	.. .. .	.. .. .	9 04 ..	9 55 ..	10 30	.. ..	0.2
330	Feb. 6	N	.. .. .	.. .. .	22 41 55	22 44 20	.. ..	23 05	0.3
		E	.. .. .	.. .. .	22 36 28	22 45 00	.. ..	23 08	0.1
331	27	N	20 26 12	20 30 20	20 33 42	20 38 30	20 45	21 07	24.0
		E	20 26 11	20 30 35	20 33 37	20 36 10	20 46	21 23	9.0
332	Apr. 18	N	4 13 07	4 23 37	.. .. .	4 24 00	.. ..	.. ..	1.1
		E	.. .. .	4 24 27	.. .. .	4 25 05	.. ..	5 10	1.2
333	24	E	4 27 23	.. .. .	4 27 55	4 28 15	4 35	4 49	13.0
334	24	E	8 06 29	8 10 31	8 11 53	8 13 01	8 23	8 40	13.4
335	26	N	2 26 38	.. .. .	2 30 24	2 30 40	2 36	2 50	2.5
		E	2 26 18	.. .. .	2 29 44	2 30 30	2 35	2 50	2.0
336	May 10	N	21 41 11	21 44 43	.. .. .	21 53 30	.. ..	22 07	0.1
		E	21 41 17	21 44 49	21 48 33	21 49 20	.. ..	22 04	0.1
337	13	N	5 23 30	.. .. .	.. .. .	5 24 10	.. ..	5 29	1.2
		E	5 23 42	.. .. .	5 24 02	5 24 08	.. ..	5 31	3.0
338	13	N	6 34 32	.. .. .	.. .. .	6 35 02	.. ..	6 39	0.5
		E	6 34 36	.. .. .	.. .. .	6 35 04	.. ..	6 40	0.7
339	June 21	N	21 40 17	21 46 09	21 49 34	21 49 58	21 53	.. ..	0.2
		E	.. .. .	21 45 58	21 48 52	21 49 44	21 57	.. ..	0.5

Register of earthquakes—Continued.

No.	Date.	Com- ponent.	P	S	L	M	C	F	A
	1916		<i>h m s</i>	<i>h m s</i>	<i>h m s</i>	<i>h m s</i>	<i>h m</i>	<i>h m</i>	<i>mm</i>
340	June 30	N	.. .. .	.. .. .	3 09 26	3 09 54	3 14	3 24	1.0
		E	.. .. .	3 05 42	3 09 54	3 10 16	3 13	3 28	1.2
341	Aug. 11	N	8 18 58	.. .. .	.. .. .	.. .. .	.. .. .	8 19	....
		E	8 18 56	.. .. .	.. .. .	.. .. .	.. .. .	8 19	....
342	28	N	.. .. .	.. .. .	7 46 53	.. .. .	7 50	.. ..	0.1
		E	.. .. .	.. .. .	7 46 43	7 48 10	7 59	.. ..	0.1
343	Sept. 23	N	5 47 58	5 52 31	5 54 47	5 58 50	6 05	6 18	0.2
		E	5 48 02	5 52 20	5 54 ..	5 57 30	6 05	6 17	0.3
344	Oct. 3	N	1 33 08	.. .. .	.. .. .	1 50 40	.. ..	2 17	0.2
		E	1 33 10	.. .. .	.. .. .	1 48 30	.. ..	2 28	0.2
345	Nov. 12	N	.. .. .	.. .. .	13 10 03	13 10 08	13 11	13 14	4.0
		E	.. .. .	.. .. .	13 10 03	13 10 08	13 11	13 14	5.5
346	25	N	13 14 38	.. .. .	13 14 51	13 15 08	.. ..	13 18	0.4
		E	13 14 38	.. .. .	13 14 51	13 15 09	.. ..	13 20	0.3
347	25	N	13 46 30	.. .. .	13 46 44	13 47 02	.. ..	13 50	0.4
		E	13 46 31	.. .. .	13 46 45	13 46 57	.. ..	13 50	0.4
348	30	N	.. .. .	.. .. .	3 19 03	3 20 15	3 25	3 37	9.0
		E	3 18 46	.. .. .	3 19 03	3 20 52	3 26	3 46	3.0
349	Dec. 23	N	9 32 06	9 38 10	9 43 ..	9 55 00	10 00	10 25	1.2
		E	9 32 20	9 38 08	.. .. .	.. .. .	.. ..	.. ..	....

REMARKS.

No. 320.—Felt by persons in Vieques.

No. 321.—Only a few long waves.

No. 322.—N not recording. Stylus passed off the paper on E.

No. 324.—Felt on the island of Porto Rico.

No. 326.—Only a few long waves.

No. 328.—Felt in Vieques.

No. 333.—Felt in Vieques and San Domingo.

Nos. 333 and 334.—Record of N accidentally burned.

No. 335.—Time of phases uncertain on account of time-marking clock being out of adjustment.

Nos. 337 and 338.—Felt in San Juan.

No. 339.—End uncertain on account of wind tremors.

No. 340.—Beginning and end uncertain on N.

No. 341.—Local. Felt in Vieques. Vertical force variometer disturbed. Waves of very short period and small amplitude.

No. 342.—Barely perceptible on N.

No. 344.—Phases uncertain.

No. 345.—Local. Felt in Vieques.

No. 349.—No long waves on E.

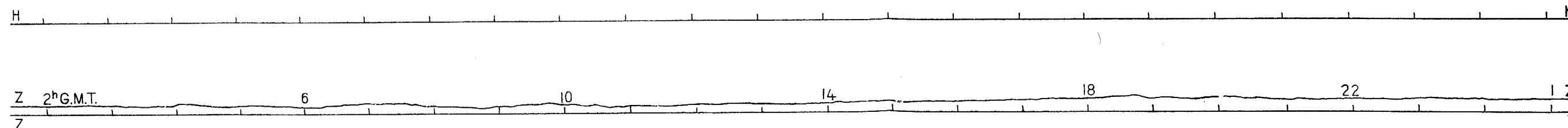
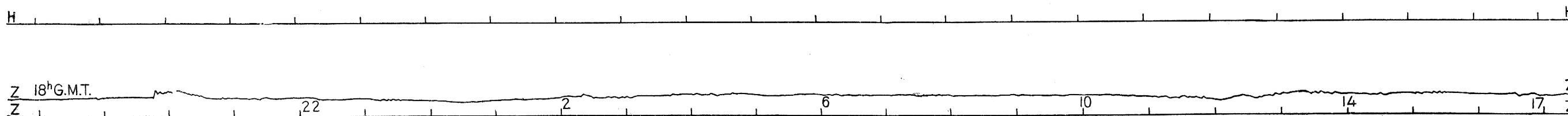
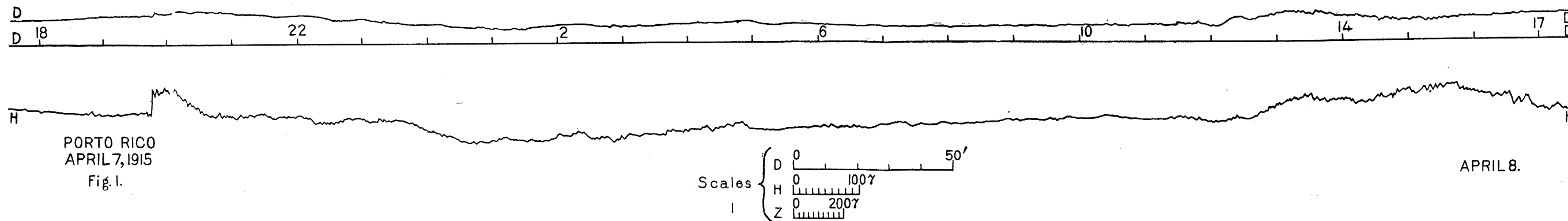
MAGNETIC STORMS.

In the table below the relative magnitude of the disturbance is indicated by the figures 1, 2, and 3. When a storm began abruptly the time of beginning is given to the nearest minute. For comparison with similar data for other observatories, the Greenwich mean time may be found by adding 4^h.

On the succeeding sheets will be found reproductions of the magnetograms showing the principal storms, reduced to three-fourths the original size. A storm selected for reproduction is indicated in the table by an asterisk after the date. Upward motion of the curves corresponds to increasing west declination, increasing H and increasing Z .

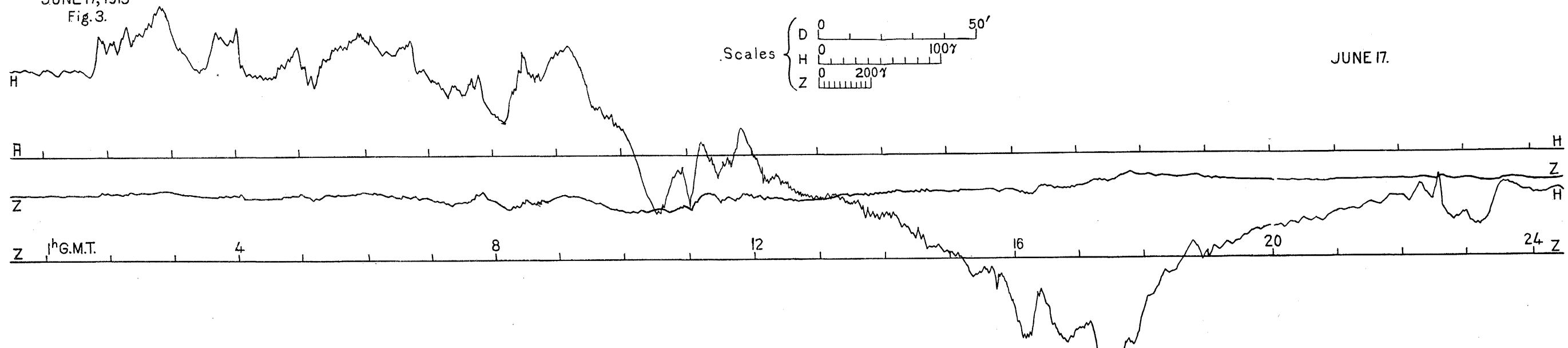
Principal magnetic disturbances.

Date	60th me- ridian time of beginning	Duration in hours	Relative magnitude	Date	60th me- ridian time of beginning	Duration in hours	Relative magnitude
1915	<i>h m</i>			1916	<i>h m</i>		
Jan. 3	23 34	108	1	Jan. 10*	11	64	2
12	6	70	1	19	21	27	1
20	11	21	1	22	5	50	1
24	14	84	1	25	0	26	1
Feb. 1	14	28	1	Feb. 12	12 33	39	1
4	11	48	1	17	2	47	1
8	5	47	1	Mar. 2	14	34	1
11	19 58	43	1	6	7	24	1
19	7	190	2	7	20 40	118	3
Mar. 6	11 23	118	1	16	18	114	2
18	7	193	2	24	3	49	1
Apr. 1	20	49	1	28	17	104	2
7*	13	40	2	Apr. 7	18	40	1
17	14	142	2	14	13	53	1
25*	23 59	30	1	17	19	28	1
30	14	112	1	19	21	27	1
May 15	19	62	1	24*	23	202	3
19	13	70	1	May 5	0	36	1
26	18	36	1	8	19	11	1
June 7	16 04	40	1	10	14	38	2
11	16	60	2	16	12	21	1
16*	9	52	3	20*	18 59	125	2
21	11 21	40	1	29	9	69	1
24	17 26	24	1	June 6	15	60	1
July 1	18	11	1	11	13	64	1
5	16 42	19	1	17	2	165	1
8	15	91	2	29	16 25	13	1
26	12	38	1	30	19 21	148	2
Aug. 1	17	64	1	July 8*	12	136	2
6	12	29	1	16	13	88	1
16	23	57	1	22	16	40	1
25*	13	131	2	Aug. 1	15	41	1
Sept. 16	8	31	1	4	14	138	2
22*	0	211	2	19	12	38	1
Oct. 9	21	48	1	22	14 28	38	2
14*	5	70	2	26*	15 42	84	3
19	1	66	1	Sept. 2	16	64	2
22*	17	102	3	9	22	80	2
31	8	58	1	14	22	78	1
Nov. 5*	10 35	77	3	22	11	63	1
9	1 15	72	1	26	14	38	1
15	12	172	2	29	23	65	2
27	1	35	1	Oct. 5*	6	218	2
Dec. 6*	3	45	2	20	1	88	1
14	47	43	1	29	11	17	1
24	20	48	1	Nov. 2	11	136	2
				11*	15	49	2
				25	12	218	2
				Dec. 11	19	31	1
				14	16	34	1
				26	20	132	1



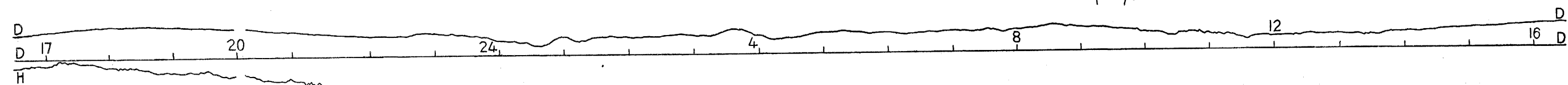


PORTO RICO
JUNE 17, 1915
Fig. 3.

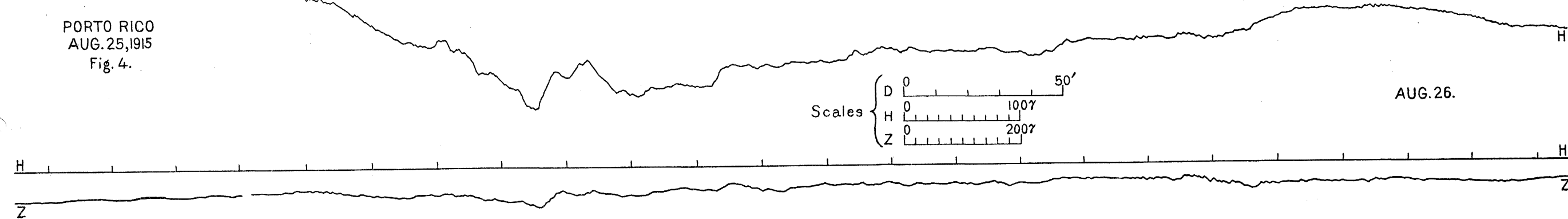


Scales {
D 0 50'
H 0 100γ
Z 0 200γ

JUNE 17.

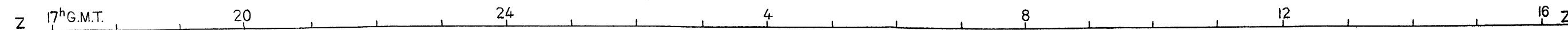


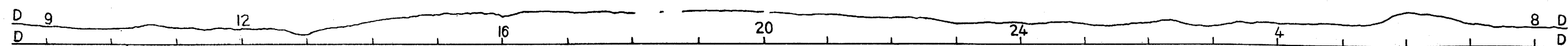
PORTO RICO
AUG. 25, 1915
Fig. 4.



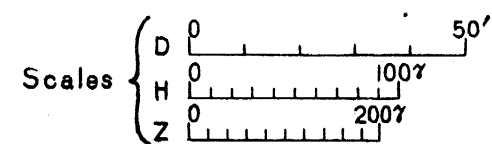
Scales {
D 0 50'
H 0 100γ
Z 0 200γ

AUG. 26.

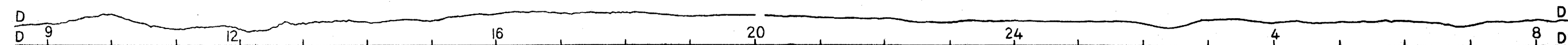
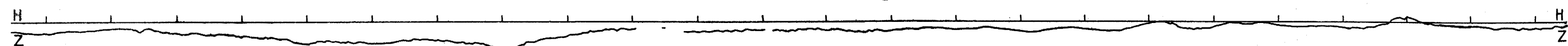
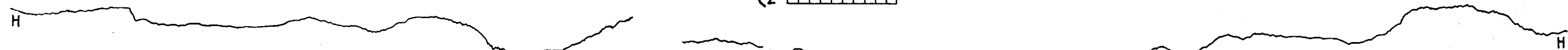




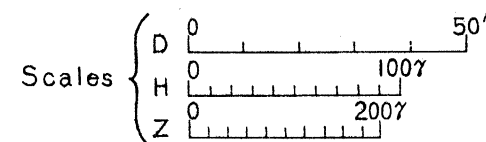
PORTO RICO
SEPT. 22, 1915
Fig 5.



SEPT. 23.

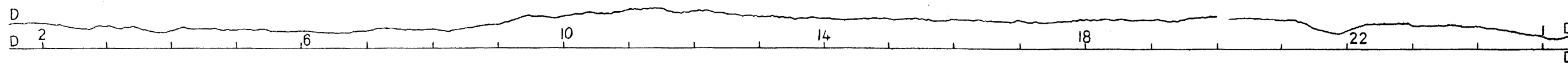


PORTO RICO
SEPT. 24, 1915
Fig. 6.

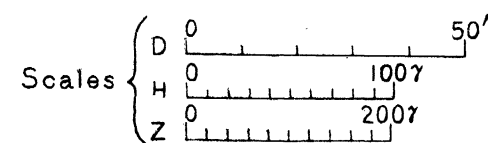


SEPT. 25.

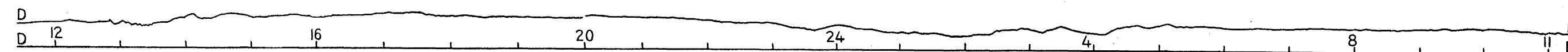
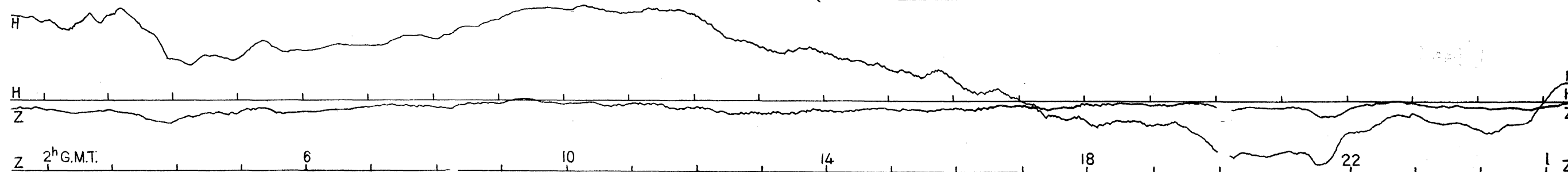




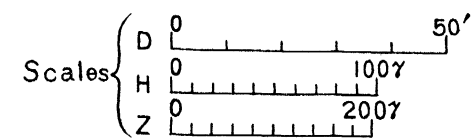
PORTO RICO
OCT. 15, 1915
Fig. 7.



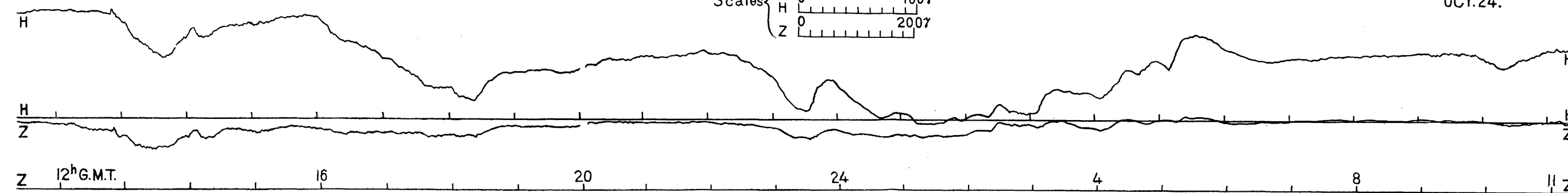
OCT. 16.

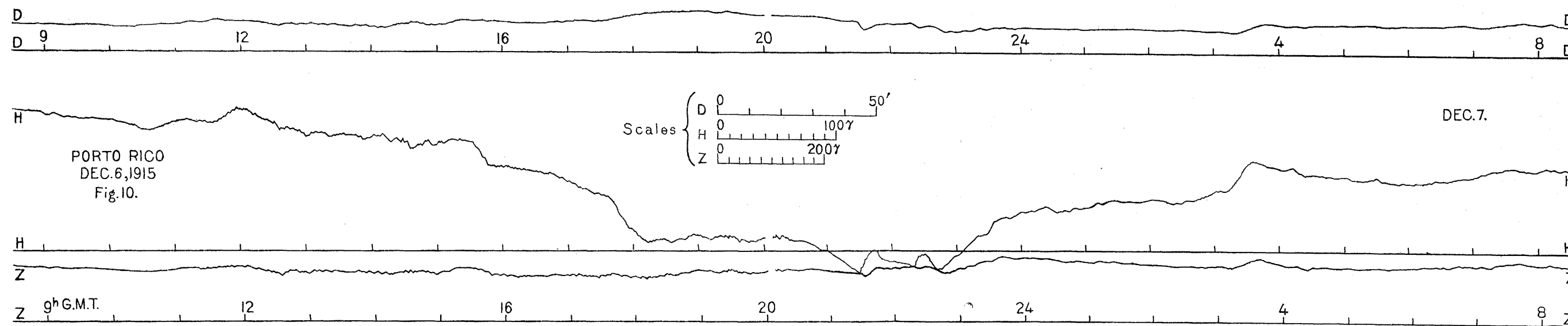
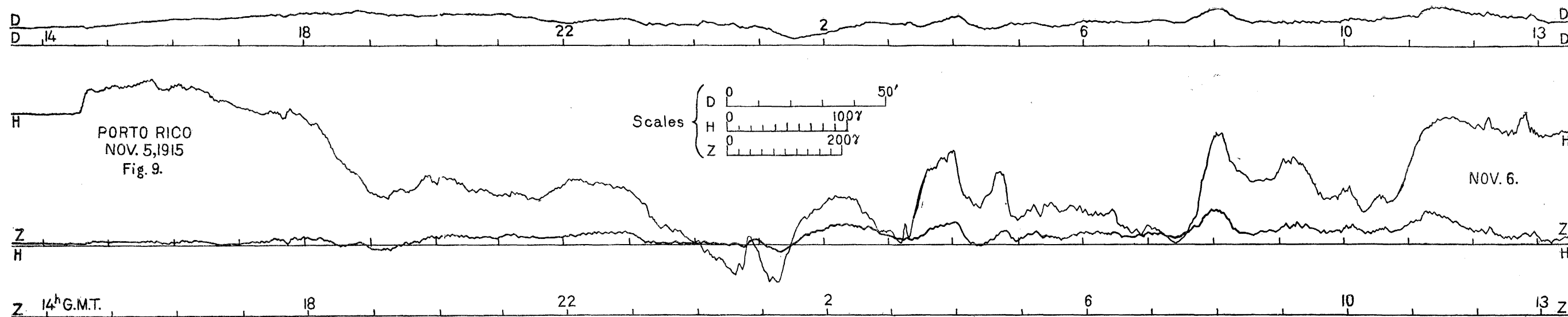


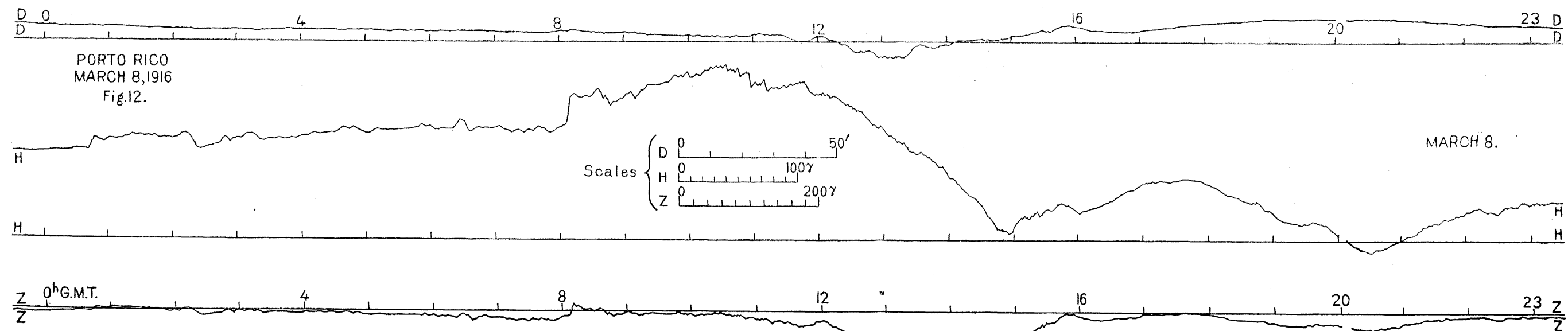
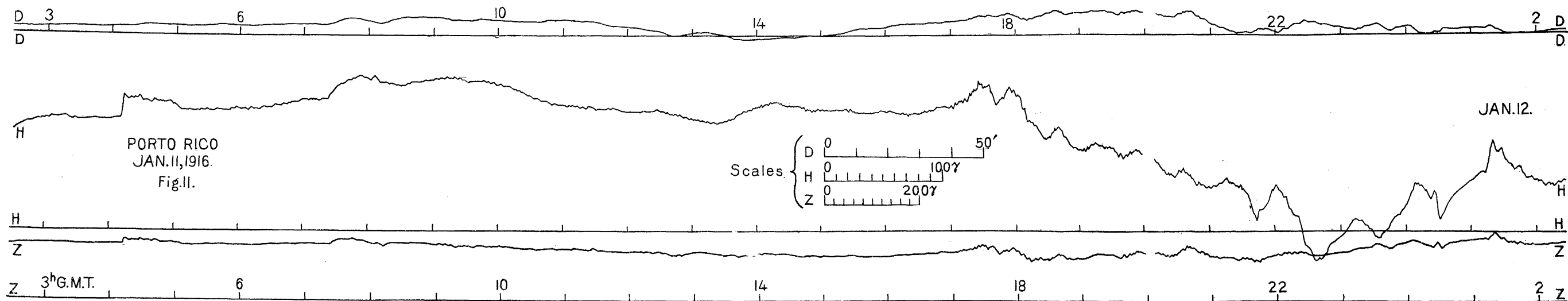
PORTO RICO
OCT. 23, 1915
Fig. 8.



OCT. 24.

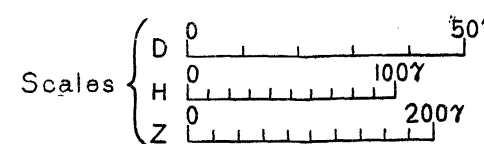




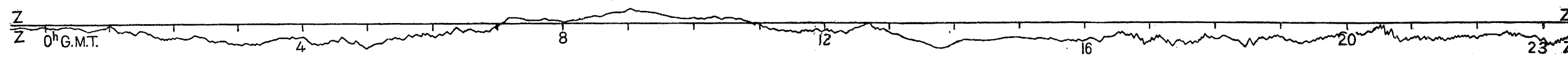
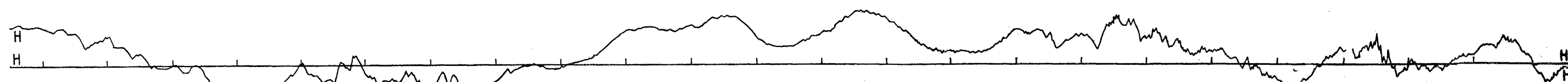




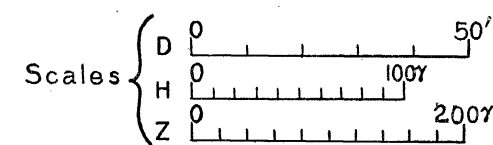
PORTO RICO
MARCH 9, 1916
Fig. 13.



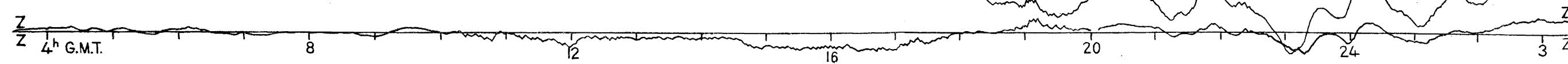
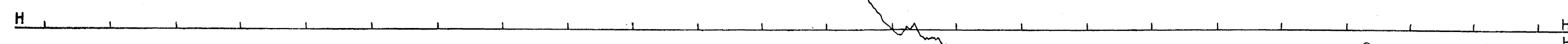
MARCH 9.

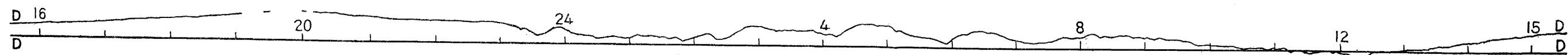


PORTO RICO
APRIL 25, 1916
Fig. 14.

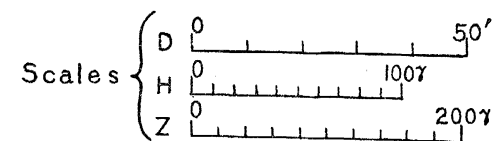


APRIL 26.

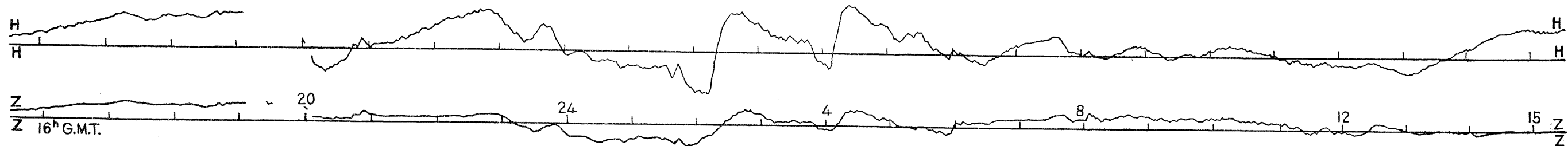




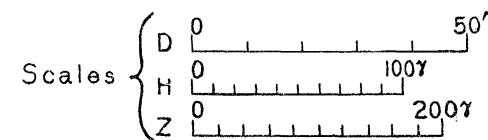
PORTO RICO
APRIL 28, 1916
Fig. 15.



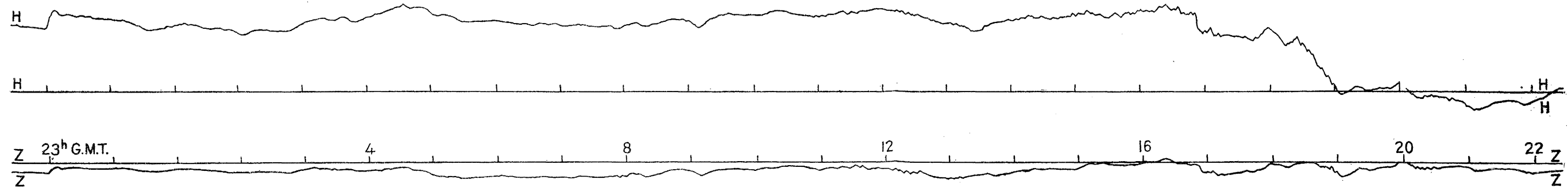
APRIL 29.

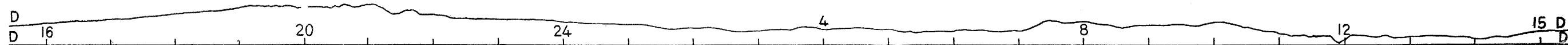


PORTO RICO
MAY 20, 1916
Fig. 16.



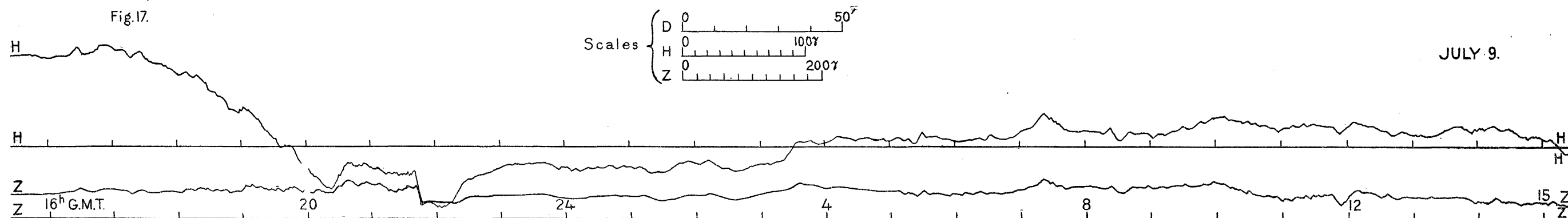
MAY 21.





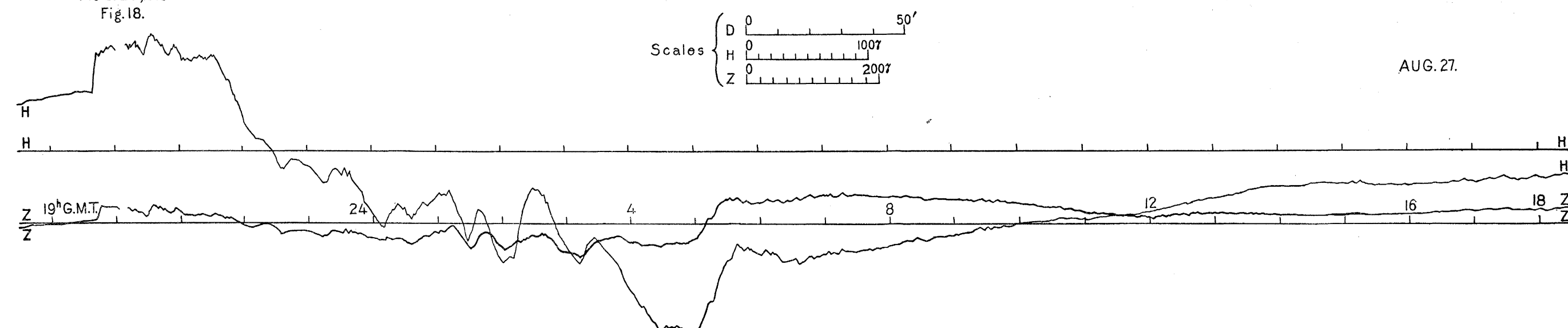
PORTO RICO
JULY 8, 1916

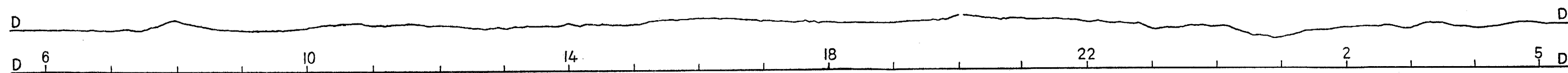
Fig. 17.



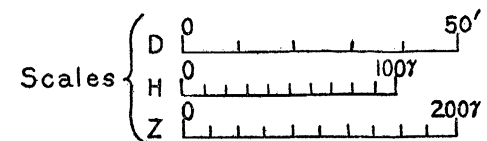
PORTO RICO
AUG. 26, 1916

Fig. 18.

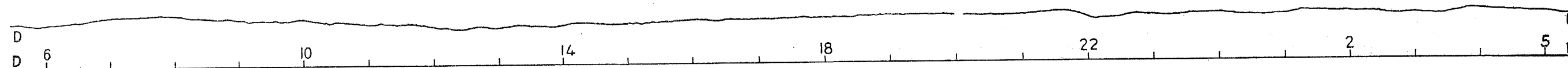
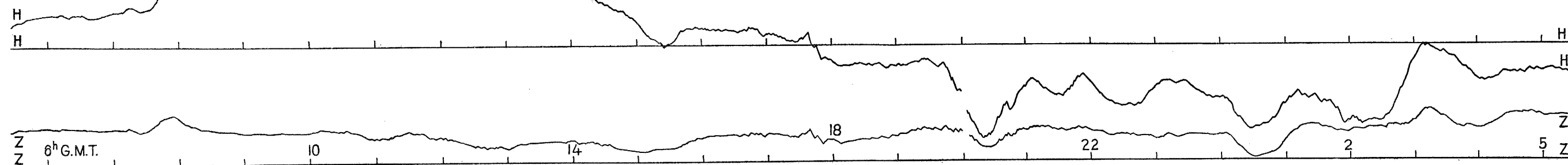




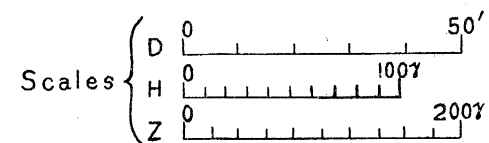
PORTO RICO
OCT. 6, 1916
Fig. 19.



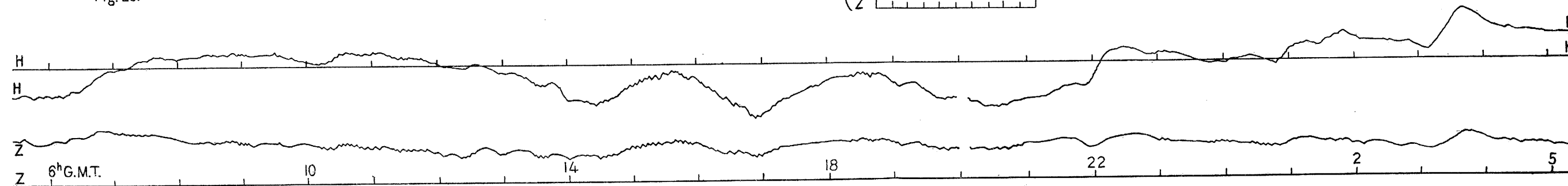
OCT. 7.

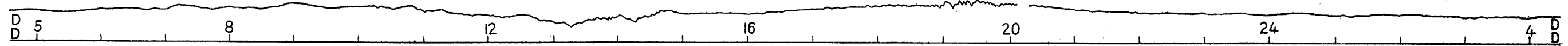


PORTO RICO
OCT. 7, 1916
Fig. 20.



OCT. 8.





PORTO RICO
NOV. 12, 1916
Fig. 21.

NOV. 13.

